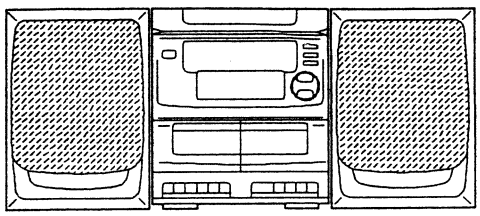
aiwa

aiwa SERVICE

CA-DW470

SERVICE MANUAL



CD CARRY COMPONENT SYSTEM

- BASIC TAPE MECHANISM:TN-21ZSW-1691
- BASIC CD MECHANISM:KSM-2101BDM
- TYPE:HE.EEZ.EZ

S/M Code No. 09-968-149-801

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SPECIFICATIONS

HE MODEL

Tuner section

FM 87.5 - 108.0 MHz
Antenna: FM antenna

SW 3.8 - 12.5 MHz
Antenna: Ferrite bar antenna

MW 531 - 1,602 kHz
(9 kHz steps)
530 - 1,710 kHz
(10 kHz steps)
Antenna: Ferrite bar antenna

Amplifier section

Power output 5W + 5W (4 ohms, EIAJ)

Power requirements
DC 12 V using eight size D (R20) batteries
AC 110-120V/220-240V selectable, 50/60 Hz

Power consumption
34 W

CD player section

Disc Compact disc

Scanning method Non-contact optical laser (semiconductor laser application)

Laser Semiconductor laser
λ = 780 nm

Rotation speed Approx. 500 - 200 rpm/ CLV

Error correction Cross Interleave, Reed Solomon code

Number of channels
2 channels

D/A conversion 1-bit dual

Cassette deck section

Track format 4 tracks, 2 channels

Frequency response
Normal tape: 50-12,000 Hz (EIAJ)

Recording system
AC bias

Erasure system Magnet erase

Motor DC motor (1)

Heads Deck 1
Recording/playback head (1)
Erasure head (1)
Deck 2
Playback head (1)

Common section

Dimensions (W × H × D)
274 × 301.5 × 273.6 mm
(10⅞ × 11⅞ × 10⅞ in.)

Weight 3.9 kg (8.58 lbs.) (not including batteries)

Speaker

Cabinet type 2-way bass reflex type

Speaker 120 mm (4¾ in.)
cone type woofer
27 mm (1⅛ in.)
ceramic type tweeter

Impedance 4 ohms

Allowable max. input
10 W

Dimensions (W × H × D)
211.5 × 292 × 210.8 mm × 2
(8⅜ × 11½ × 8⅜ in.)

Weight 1.55 kg (3.41 lbs.) × 2

EZ, EEZ MODELS

Tuner section

FM 87.5 - 108.0 MHz
Antenna: FM antenna

MW 531 - 1,602 kHz
(9 kHz steps)
530 - 1,710 kHz
(10 kHz steps)
Antenna: Ferrite bar antenna

LW 153 - 288 kHz
Antenna: Ferrite bar antenna

Amplifier section

Power output 6.5W + 6.5W (DIN MUSIC POWER)
5W + 5W (10% T.H.D./ 4 ohms AC)
4W + 4W (DIN. 1% Rated power)

Power requirements
DC 12 V using eight size D (R20) batteries
AC 230V, 50 Hz

Power consumption
40 W

CD player section

Disc Compact disc

Scanning method Non-contact optical laser (semiconductor laser application)

Laser Semiconductor laser
λ = 780 nm

Rotation speed Approx. 500 - 200 rpm/ CLV

Error correction Cross Interleave, Reed Solomon code

Number of channels
2 channels

D/A conversion 1-bit dual

Cassette deck section

Track format 4 tracks, 2 channels

Frequency response
Normal tape: 50-12,000 Hz (EIAJ)

Recording system
AC bias

Erasure system Magnet erase

Motor DC motor (1)

Heads Deck 1
Recording/playback head (1)
Erasure head (1)
Deck 2
Playback head (1)

Common section

Dimensions (W × H × D)
274 × 301.5 × 273.6 mm
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Allowable max. input
10 W

Dimensions (W × H × D)
211.5 × 292 × 210.8 mm × 2
(8⅜ × 11½ × 8⅜ in.)

Weight 1.55 kg (3.41 lbs.) × 2

● Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

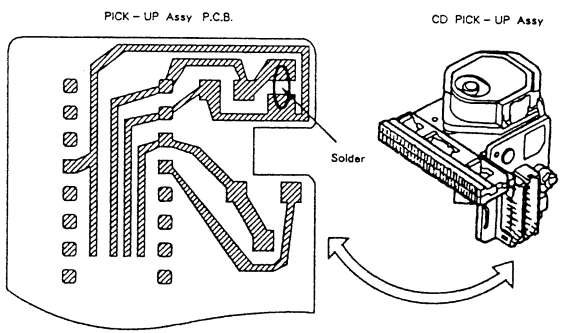
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block (KSS-210B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	86-CT5-605-010		IC,LC867120DW-5A60
	87-017-680-010		IC,TA8176SN
	87-070-282-010		IC,BU2092
	87-070-083-010		IC,GP1U281X
	87-002-268-010		IC,LA1851N
	87-001-376-010		IC,LC7218
	87-017-681-010		IC,TA8126S
	87-020-828-010		IC,BA3416BL
	87-070-134-010		IC,TA2065F
	87-070-336-010		C-IC,TC9284BF
	87-001-440-010		IC,BA15218N
	87-A20-157-010		IC,TA2092N
	87-002-348-010		IC,NJM4580D
	87-001-536-010		IC,NJM78M05FA
	87-070-417-010		IC,NJM4558DD
	87-017-914-010		IC,BU4094BC
	87-017-804-010		IC,BU4052BC
	87-017-787-010		IC,M62412P
	87-017-564-010		IC,LC7533
	87-002-848-010		IC,TA8229K
⚠	87-001-132-010		PROTECTOR,IC ICP-N38
	87-070-416-010		IC,NJU7201L55
⚠	87-002-330-010		PROTECTOR,IC ICP-N5
TRANSISTOR			
	89-319-233-080		TR,2SC1923O
	87-026-291-080		TR,DTC124XS
	87-026-462-080		TR,2SC1740SRS
	87-026-486-080		TR,DTA144TS
	87-026-288-080		TR,DTA143XS
	89-501-614-080		FET,2SK161Y
	87-026-287-080		TR,DTC143ES
	87-026-463-080		TR,2SA933SRS
	87-026-286-080		TR,DTA143ES
	89-502-464-080		FET,2SK246Y
	89-318-154-080		TR,2SC1815Y
	87-026-214-080		TR,DTA114YS
	89-110-155-080		TR,2SA1015GR
	89-112-965-080		TR,2SA1296GR
	87-026-464-080		TR,DTC114TS
	89-320-011-080		TR,2SC2001K
	89-322-405-680		TR,2SC2240GR
	89-406-555-080		TR,2SD655E
	89-213-702-010		TR,2SB1370E
	89-113-187-080		TR,2SA1318T
	89-109-521-080		TR,2SA952K
DIODE			
	87-070-345-080		DIODE,1N4148
	87-020-605-080		DIODE,1SS135
	87-A40-156-010		DIODE,1N5392
	87-017-164-080		ZENER,HZS9A2L
	87-017-148-080		ZENER,HZS6A1L
	87-017-139-080		ZENER,HZS15-2
MAIN C.B			
C1	87-A10-164-010		CAP,CER 100P-50 K SL
C2	87-A10-131-010		CAP,CER 5P-50 K CH
C4	87-A10-172-010		CAP,CER 470P-50 K Y5E<EZ,EEZ>
C5	87-A10-132-010		CAP,CER 6P-50 K CH
C6	87-A10-136-010		CAP,CER 10P-50 K CH
C7	87-A10-182-010		CAP,CER 0.01-50 Z F
C8	87-A10-182-010		CAP,CER 0.01-50 Z F
C10	87-A10-133-010		CAP,CER 7P-50 K CH
C11	87-A10-138-010		CAP,CER 15P-50 K CH
C12	87-A10-173-010		CAP,CER 560P-50 K Y5E
C13	87-A10-182-010		CAP,CER 0.01-50 Z F
C15	87-A10-137-010		CAP,CER 12P-50 K CH
C16	87-A10-163-010		CAP,CER 82P-50 K SL
C17	87-A10-182-010		CAP,CER 0.01-50 Z F
C18	87-A10-182-010		CAP,CER 0.01-50 Z F
C21	87-A10-176-010		CAP,CER 1000P-50 K B
C22	87-018-108-080		CAP,TC U 20P-50 J SL UP050
C23	87-A10-170-010		CAP,CER 330P-50 K Y5E
C24	87-A10-177-010		CAP,CER 1500P-50 K B
C31	87-A10-182-010		CAP,CER 0.01-50 Z F
C32	87-A10-182-010		CAP,CER 0.01-50 Z F
C40	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C53	87-A10-182-010		CAP,CER 0.01-50 Z F<EZ,EEZ>
C54	87-A10-140-010		CAP,CER 22P-50 K CH<EZ,EEZ>
C55	87-A10-176-010		CAP,CER 1000P-50 K B<EZ,EEZ>
C56	87-A10-158-010		CAP,CER 33P-50 K SL<HE>
C57	87-A10-166-010		CAP,CER 150P-50 K SL<EZ,EEZ>
C57	87-A10-171-010		CAP,CER 390P-50 K Y5E<HE>
C58	87-A10-179-010		CAP,CER 3300P-50 M E<HE>
C58	87-A10-171-010		CAP,CER 390P-50 K Y5E<EZ,EEZ>
C59	87-A10-163-010		CAP,CER 82P-50 K SL<EZ,EEZ>
C59	87-018-173-080		CAP,TC U 15P-50 J UJ<HE>
C60	87-018-171-080		CAP,TC U 10P-50 J UJ<HE>
C60	87-018-173-080		CAP,TC U 15P-50 J UJ<EZ,EEZ>
C64	87-010-544-080		CAP,E 0.1-50 M SME
C72	87-A10-182-010		CAP,CER 0.01-50 Z F<EZ,EEZ>
C74	87-A10-169-010		CAP,CER 270P-50 K Y5E<EZ,EEZ>
C101	87-A10-182-010		CAP,CER 0.01-50 Z F
C103	87-010-248-080		CAP,E 220-10 SME
C104	87-010-402-080		CAP,E 2.2-50 M SME
C105	87-A10-182-010		CAP,CER 0.01-50 Z F
C106	87-A10-181-010		CAP,CER 6800P-50 M E
C107	87-A10-168-010		CAP,CER 220P-50 K Y5E
C108	87-010-401-080		CAP,E 1-50 M SME
C109	87-010-401-080		CAP,E 1-50 M SME
C110	87-010-401-080		CAP,E 1-50 M SME
C111	87-010-546-080		CAP,E 0.33-50 SME
C112	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C113	87-010-404-080		CAP,E 4.7-50 M SME
C114	87-A10-169-010		CAP,CER 270P-50 K Y5E<HE>
C114	87-A10-172-010		CAP,CER 470P-50 K Y5E<EZ,EEZ>
C115	87-A10-182-010		CAP,CER 0.01-50 Z F<EZ,EEZ>
C115	87-A10-176-010		CAP,CER 1000P-50 K B<HE>
C116	87-010-405-080		CAP,E 10-50 M SME
C117	87-A10-182-010		CAP,CER 0.01-50 Z F
C131	87-010-545-080		CAP,E 0.22-50 M SME
C132	87-010-545-080		CAP,E 0.22-50 M SME
C141	87-A10-182-010		CAP,CER 0.01-50 Z F
C142	87-010-221-080		CAP,E 470-10 M SME
C151	87-A10-157-010		CAP,CER 27P-50 K SL
C152	87-A10-157-010		CAP,CER 27P-50 K SL
C153	87-A10-164-010		CAP,CER 100P-50 K SL
C154	87-A10-164-010		CAP,CER 100P-50 K SL
C155	87-A10-164-010		CAP,CER 100P-50 K SL
C156	87-A10-164-010		CAP,CER 100P-50 K SL
C157	87-A10-176-010		CAP,CER 1000P-50 K B
C158	87-A10-176-010		CAP,CER 1000P-50 K B
C159	87-A10-182-010		CAP,CER 0.01-50 Z F
C160	87-010-263-080		CAP,E 100-10 SME
C161	87-A10-182-010		CAP,CER 0.01-50 Z F
C162	87-A10-177-010		CAP,CER 1500P-50 K B
C163	87-A10-182-010		CAP,CER 0.01-50 Z F
C164	87-A10-163-010		CAP,CER 82P-50 K SL
C165	87-A10-182-010		CAP,CER 0.01-50 Z F
C166	87-A10-182-010		CAP,CER 0.01-50 Z F
C167	87-015-243-080		CAP,E 3.3-50 LL
C168	87-A10-182-010		CAP,CER 0.01-50 Z F
C169	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C171	87-A10-182-010		CAP,CER 0.01-50 Z F

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C191	87-A10-177-010		CAP,CER 1500P-50 K B
C192	87-A10-169-010		CAP,CER 270P-50 K Y5E
C194	87-010-263-080		CAP,E 100-10 SME
C195	87-010-374-080		CAP,E 47-10 M SME
C301	87-018-130-080		CAP,TC U 820P-50 K B UP050
C302	87-018-130-080		CAP,TC U 820P-50 K B UP050
C303	87-A10-175-010		CAP,CER 820P-50 K Y5E
C304	87-A10-175-010		CAP,CER 820P-50 K Y5E
C305	87-010-374-080		CAP,E 47-10 M SME
C306	87-010-374-080		CAP,E 47-10 M SME
C307	87-010-382-080		CAP,E 22-25 M SME
C308	87-010-405-080		CAP,E 10-50 M SME
C309	87-010-545-080		CAP,E 0.22-50 M SME
C310	87-010-545-080		CAP,E 0.22-50 M SME
C311	87-010-248-080		CAP,E 220-10 SME
C312	87-010-374-080		CAP,E 47-10 M SME
C315	87-010-401-080		CAP,E 1-50 M SME
C316	87-010-401-080		CAP,E 1-50 M SME
C317	87-010-382-080		CAP,E 22-25 M SME
C318	87-010-382-080		CAP,E 22-25 M SME
C319	87-010-405-080		CAP,E 10-50 M SME
C320	87-010-405-080		CAP,E 10-50 M SME
C321	87-A10-170-010		CAP,CER 330P-50 K Y5E
C322	87-A10-170-010		CAP,CER 330P-50 K Y5E
C325	87-A10-177-010		CAP,CER 1500P-50 K B
C326	87-A10-177-010		CAP,CER 1500P-50 K B
C327	87-010-404-080		CAP,E 4.7-50 M SME
C328	87-A10-176-010		CAP,CER 1000P-50 K B
C329	87-A10-178-010		CAP,CER 2200P-50 K B
C331	87-010-374-080		CAP,E 47-10 M SME
C334	87-A10-167-010		CAP,CER 180P-50 K SL
C341	87-A10-170-010		CAP,CER 330P-50 K Y5E
C342	87-A10-170-010		CAP,CER 330P-50 K Y5E
C351	87-010-382-080		CAP,E 22-25 M SME
C451	87-A10-182-010		CAP,CER 0.01-50 Z F
C452	87-A10-170-010		CAP,CER 330P-50 K Y5E
C481	87-A10-182-010		CAP,CER 0.01-50 Z F
C501	87-010-401-080		CAP,E 1-50 M SME
C502	87-010-401-080		CAP,E 1-50 M SME
C503	87-010-401-080		CAP,E 1-50 M SME
C504	87-010-401-080		CAP,E 1-50 M SME
C505	87-010-221-080		CAP,E 470-10 M SME
C507	87-A10-182-010		CAP,CER 0.01-50 Z F
C508	87-A10-182-010		CAP,CER 0.01-50 Z F
C531	87-010-401-080		CAP,E 1-50 M SME
C532	87-010-401-080		CAP,E 1-50 M SME
C539	87-010-545-080		CAP,E 0.22-50 M SME
C540	87-010-545-080		CAP,E 0.22-50 M SME
C541	87-010-260-080		CAP,E 47-25 SME
C571	87-010-401-080		CAP,E 1-50 M SME
C572	87-010-401-080		CAP,E 1-50 M SME
C573	87-010-401-080		CAP,E 1-50 M SME
C574	87-010-401-080		CAP,E 1-50 M SME
C579	87-010-374-080		CAP,E 47-10 M SME
C580	87-010-401-080		CAP,E 1-50 M SME
C581	87-010-403-080		CAP,E 3.3-50 M SME
C582	87-010-371-080		CAP,E 470-6.3 M SME
C583	87-010-221-080		CAP,E 470-10 M SME
C591	87-010-401-080		CAP,E 1-50 M SME
C592	87-010-401-080		CAP,E 1-50 M SME
C593	87-A10-182-010		CAP,CER 0.01-50 Z F
C594	87-A10-182-010		CAP,CER 0.01-50 Z F
C605	87-A10-178-010		CAP,CER 2200P-50 K B
C606	87-A10-178-010		CAP,CER 2200P-50 K B
C607	87-010-406-080		CAP,E 22-50 M SME
C608	87-010-406-080		CAP,E 22-50 M SME
C609	87-010-260-080		CAP,E 47-25 SME
C613	87-010-263-080		CAP,E 100-10 SME
C614	87-010-263-080		CAP,E 100-10 SME
C615	87-010-376-090		CAP,E 2200-10 M SME
C616	87-010-376-090		CAP,E 2200-10 M SME
C621	87-010-260-080		CAP,E 47-25 SME
C622	87-010-387-080		CAP,E 470-25 M SME
C625	87-010-405-080		CAP,E 10-50 M SME
C641	87-010-248-080		CAP,E 220-10 SME
C720	87-010-405-080		CAP,E 10-50 M SME
C721	87-010-453-090		CAP,E 4700-25 SME
C722	87-010-385-080		CAP,E 220-25 M SME
C723	87-010-248-080		CAP,E 220-10 SME
C724	87-A10-182-010		CAP,CER 0.01-50 Z F
C726	87-010-404-080		CAP,E 4.7-50 M SME
C727	87-010-401-080		CAP,E 1-50 M SME
C728	87-010-221-080		CAP,E 470-10 M SME
C729	87-010-263-080		CAP,E 100-10 SME
C730	87-010-248-080		CAP,E 220-10 SME
C741	87-010-263-080		CAP,E 100-10 SME
C831	87-010-265-080		CAP,E 33-16 M SME
C832	87-010-401-080		CAP,E 1-50 M SME
CF1	87-008-264-010		FLTR,CF FMSFE10.7MS2<EZ,EEZ>
CF1	87-008-261-010		FLTR,CFSFE10.7MA5<HE>
CF101	87-008-264-010		FLTR,CF FMSFE10.7MS2<EZ,EEZ>
CF101	87-008-261-010		FLTR,CFSFE10.7MA5<HE>
CT51	87-011-219-080		TRIMMER,CER 10P
CT52	87-011-219-080		TRIMMER,CER 10P<HE>
CT52	87-011-220-080		TRIMMER,CER 20P<EZ,EEZ>
IFT101	87-008-470-010		IFT,FM 7.5M 7KM
J601	87-009-216-010		JACK,3.5 BLK ST
J602	87-A60-217-010		TERMINAL,SPKR 4P
J801	87-099-715-010		JACK,PIN 2P
L1	87-003-133-010		COIL,0.22UH
L2	87-006-217-010		COIL,RF FM 4-1/2TS
L3	87-006-217-010		COIL,RF FM 4-1/2TS
L4	87-005-847-080		COIL,2.2UH K CECS
L5	87-006-217-010		COIL,RF FM 4-1/2TS
L51	87-007-253-010		COIL,OSC LW PS 796KHZ<EZ,EEZ>
L51	87-007-304-010		COIL,OSC MW-H PS<HE>
L52	87-007-304-010		COIL,OSC MW-H PS<EZ,EEZ>
L52	87-007-298-010		COIL,OSC SW3 PS<HE>
L61	86-CT4-610-010		BAR-ANT,AM-EJ<EZ,EEZ>
L61	86-CT4-611-010		BAR-ANT,AM-H3J<HE>
L151	87-A50-073-080		COIL,4.70UH (CECS)
L152	87-A50-083-080		COIL,47UH (CECS)
L191	87-A50-094-010		COIL,OSCDC-DC 796KHZ
L192	87-A50-087-080		COIL,100UH (CECS)
L301	87-007-322-010		COIL,OSC BIAS 61KHZ
L601	87-A50-067-080		COIL,1.00UH (CECS)
L602	87-A50-067-080		COIL,1.00UH (CECS)
MFT101	87-008-460-010		FLTR,CFCFMT
R607	87-022-480-080		RES,NF 2.2-1/4W J
R608	87-022-480-080		RES,NF 2.2-1/4W J
R821	87-022-480-080		RES,NF 2.2-1/4W J
R822	87-022-480-080		RES,NF 2.2-1/4W J
SFR101	87-024-173-080		SFR,22K H RH0638C
SFR102	87-024-172-080		SFR,10K DIA6V
SFR751	87-024-169-080		SFR,2.2K H RH0638C
SW301	87-A90-089-010		SW,SL 1-6-2
VC1	87-002-730-080		VARI-CAP,SVC203SPA
VC2	87-002-730-080		VARI-CAP,SVC203SPA
VC3	87-002-730-080		VARI-CAP,SVC203SPA
VC51	81-754-634-010		VARI-CAP,KV1260
VC52	81-754-634-010		VARI-CAP,KV1260
X101	87-030-218-010		VIB,CER 457KHZ KBR HS15
X151	87-030-243-010		VIB,XTAL 7.200MHZ NR-18

FRONT C.B

C2	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C3	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C4	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C7	87-010-400-080		CAP,E 0.47-50 M SME
C8	87-010-401-080		CAP,E 1-50 M SME
C10	87-010-405-080		CAP,E 10-50 M SME
C12	87-010-374-080		CAP,E 47-10 M SME
C13	87-A10-176-010		CAP,CER 1000P-50 K B
C14	87-A10-182-010		CAP,CER 0.01-50 Z F
C15	87-A10-160-010		CAP,CER 47P-50 K SL
C16	87-A10-158-010		CAP,CER 33P-50 K SL
C17	87-A10-159-010		CAP,CER 39P-50 K SL
C18	87-010-248-080		CAP,E 220-10 SME
C19	87-A10-176-010		CAP,CER 1000P-50 K B
C21	87-A10-182-010		CAP,CER 0.01-50 Z F
C98	87-010-263-080		CAP,E 100-10 SME
C99	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C101	87-010-545-080		CAP,E 0.22-50 M SME
C102	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C200	87-A10-140-010		CAP,CER 22P-50 K CH
C201	87-A10-140-010		CAP,CER 22P-50 K CH
C401	87-A10-178-010		CAP,CER 2200P-50 K B
C403	87-A10-166-010		CAP,CER 150P-50 K SL
C404	87-010-401-080		CAP,E 1-50 M SME
C405	87-010-545-080		CAP,E 0.22-50 M SME
C406	87-A10-176-010		CAP,CER 1000P-50 K B
C407	87-010-401-080		CAP,E 1-50 M SME
C408	87-A10-176-010		CAP,CER 1000P-50 K B
C409	87-010-248-080		CAP,E 220-10 SME
C410	87-010-405-080		CAP,E 10-50 M SME
C413	87-010-374-080		CAP,E 47-10 M SME
C414	87-A10-165-010		CAP,CER 120P-50 K SL
C970	87-A10-176-010		CAP,CER 1000P-50 K B
C980	87-010-374-080		CAP,E 47-10 M SME
D4	87-A40-162-010		LED,L-1154SRD
D5	87-A40-162-010		LED,L-1154SRD
D6	87-A40-162-010		LED,L-1154SRD
D7	87-A40-162-010		LED,L-1154SRD
D8	87-A40-162-010		LED,L-1154SRD
D9	87-A40-162-010		LED,L-1154SRD
D10	87-A40-162-010		LED,L-1154SRD
D11	87-A40-162-010		LED,L-1154SRD
D21	87-A40-161-010		LED,L-1154SGD
D23	87-A40-161-010		LED,L-1154SGD
D25	87-A40-161-010		LED,L-1154SGD
D27	87-A40-161-010		LED,L-1154SGD
D29	87-A40-161-010		LED,L-1154SGD
D33	87-A40-161-010		LED,L-1154SGD
D35	87-A40-161-010		LED,L-1154SGD
J401	82-NF7-630-010		JACK,3.5 MO
L1	87-005-849-080		COIL,10UH K CECS
L10	87-003-171-010		COIL,15UH FL5R100
L11	87-003-171-010		COIL,15UH FL5R100
L401	87-A50-067-080		COIL,1.00UH (CECS)
LCD1	86-CT5-611-010		LCD,DISPLAY 6CT-5
SW1	87-036-170-080		SW,TACT SKHVBA
SW2	87-036-170-080		SW,TACT SKHVBA
SW3	87-036-170-080		SW,TACT SKHVBA
SW4	87-036-170-080		SW,TACT SKHVBA
SW5	87-036-170-080		SW,TACT SKHVBA
SW7	87-036-170-080		SW,TACT SKHVBA
SW8	87-036-170-080		SW,TACT SKHVBA
SW9	87-036-170-080		SW,TACT SKHVBA
SW10	87-036-170-080		SW,TACT SKHVBA
SW11	87-036-170-080		SW,TACT SKHVBA
SW15	87-036-170-080		SW,TACT SKHVBA
SW16	87-036-170-080		SW,TACT SKHVBA
SW17	87-036-170-080		SW,TACT SKHVBA
SW18	87-036-170-080		SW,TACT SKHVBA
SW19	87-036-170-080		SW,TACT SKHVBA
SW20	87-036-170-080		SW,TACT SKHVBA
SW21	87-036-170-080		SW,TACT SKHVBA
VR401	82-NK7-615-010		VR,10KA RK11K1130
X1	87-030-273-010		VIB,XTAL 32.768KHZ DT-38 5PPM
X2	87-A70-018-080		VIB,CER 6.00MHZ MG200

CD C.B

C301	87-018-100-080		CAP,TC U 4.7P-50 K SL UP050
C302	87-018-208-080		CAP,TC U 0.047-50 Z F UP050
C304	87-010-263-080		CAP,E 100-10 SME
C305	87-010-374-080		CAP,E 47-10 M SME
C306	87-010-263-080		CAP,E 100-10 SME
C307	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C309	87-010-405-080		CAP,E 10-50 M SME
C310	87-010-374-080		CAP,E 47-10 M SME
C311	87-018-208-080		CAP,TC U 0.047-50 Z F UP050
C312	87-018-202-080		CAP,TC U 6800P-16 M X UP050
C313	87-010-405-080		CAP,E 10-50 M SME
C314	87-010-382-080		CAP,E 22-25 M SME
C315	87-010-403-080		CAP,E 3.3-50 M SME
C319	87-018-129-080		CAP,TC U 680P-50 K B UP050
C320	87-A10-157-010		CAP,CER 27P-50 K SL
C321	87-010-265-080		CAP,E 33-16 M SME
C322	87-010-263-080		CAP,E 100-10 SME
C323	87-A10-176-010		CAP,CER 1000P-50 K B
C324	87-A10-140-010		CAP,CER 22P-50 K CH
C325	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C326	87-010-263-080		CAP,E 100-10 SME
C327	87-A10-182-010		CAP,CER 0.01-50 Z F
C328	87-A10-182-010		CAP,CER 0.01-50 Z F
C329	87-A10-172-010		CAP,CER 470P-50 K Y5E
C333	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C334	87-010-248-080		CAP,E 220-10 SME
C335	87-010-374-080		CAP,E 47-10 M SME
C336	87-018-119-080		CAP,TC U 100P-50 K B UP050
C337	87-A10-182-010		CAP,CER 0.01-50 Z F
C338	87-A10-182-010		CAP,CER 0.01-50 Z F
C339	87-018-205-080		CAP,TC U 0.022-25 Z F TP
C342	87-A10-165-010		CAP,CER 120P-50 K SL
C343	87-018-126-080		CAP,TC U 390P-50 K B UP050
C344	87-A10-165-010		CAP,CER 120P-50 K SL
C345	87-A10-165-010		CAP,CER 120P-50 K SL
C346	87-A10-182-010		CAP,CER 0.01-50 Z F
C347	87-A10-182-010		CAP,CER 0.01-50 Z F
C348	87-010-401-080		CAP,E 1-50 M SME
C349	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C350	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C351	87-A10-182-010		CAP,CER 0.01-50 Z F
C352	87-010-221-080		CAP,E 470-10 M SME
C353	87-A10-178-010		CAP,CER 2200P-50 K B
C354	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C355	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C356	87-A10-182-010		CAP,CER 0.01-50 Z F
C357	87-A10-102-080		CAP,E 1000-10 REA
C358	87-A10-182-010		CAP,CER 0.01-50 Z F
C359	87-010-263-080		CAP,E 100-10 SME
C360	87-010-402-080		CAP,E 2.2-50 M SME
C361	87-010-402-080		CAP,E 2.2-50 M SME
C362	87-018-133-080		CAP,TC U 4700P-16 N X UP050
C363	87-010-221-080		CAP,E 470-10 M SME
C364	87-010-263-080		CAP,E 100-10 SME
C365	87-A10-165-010		CAP,CER 120P-50 K SL
C366	87-018-126-080		CAP,TC U 390P-50 K B UP050
C367	87-A10-165-010		CAP,CER 120P-50 K SL
C368	87-A10-165-010		CAP,CER 120P-50 K SL
C369	87-A10-165-010		CAP,CER 120P-50 K SL
C370	88-266-910-010		CAP,SC 0.1-25 K SR DD400
C372	87-010-374-080		CAP,E 47-10 M SME
C373	87-010-401-080		CAP,E 1-50 M SME
C374	87-A10-140-010		CAP,CER 22P-50 K CH
C375	87-A10-165-010		CAP,CER 120P-50 K SL
C376	87-018-133-080		CAP,TC U 4700P-16 N X UP050

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C377	87-010-402-080		CAP,E 2.2-50 M SME
CN302	86-CT5-607-010		CONN ASSY,8P RED
CN303	86-CT5-608-010		CONN ASSY,6P ORANGE
CN305	86-CT5-609-010		CONN ASSY,6P AF
FB1	87-008-372-010		FLTR,EMIBL01 RN1
FB2	87-008-474-080		F-BEAD, BL02RN1-R62T2 EMI
L301	87-005-849-080		COIL,10UH K CECS
L302	87-005-370-080		COIL,680UH K LAL03
SFR301	87-024-172-080		SFR,10K DIA6V
SFR302	87-024-176-080		SFR,100K H RH0638C
SFR303	87-024-176-080		SFR,100K H RH0638C
SFR304	87-024-176-080		SFR,100K H RH0638C
X301	81-592-641-010		CERALOCK 16.93MHZ

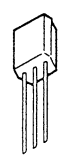
POWER C.B

⚠F701	87-035-191-010		FUSE,3.15A 250V T 218
⚠FC701	87-A90-160-080		FUSE CLAMP,FC 51F
⚠FC702	87-A90-160-080		FUSE CLAMP,FC 51F

TRANSISTOR ILLUSTRATION

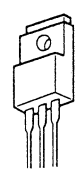
E C B

2SA952
2SA1015
2SA1296
2SA1318
2SC1815
2SC1923
2SC2001
2SC2240
2SD655



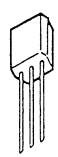
E C B

2SA933S
2SC1740S
DTA114YS
DTA143ES
DTA143XS
DTA144TS
DTC114TS
DTC124XS
DTC143ES



B C E

2SB1370



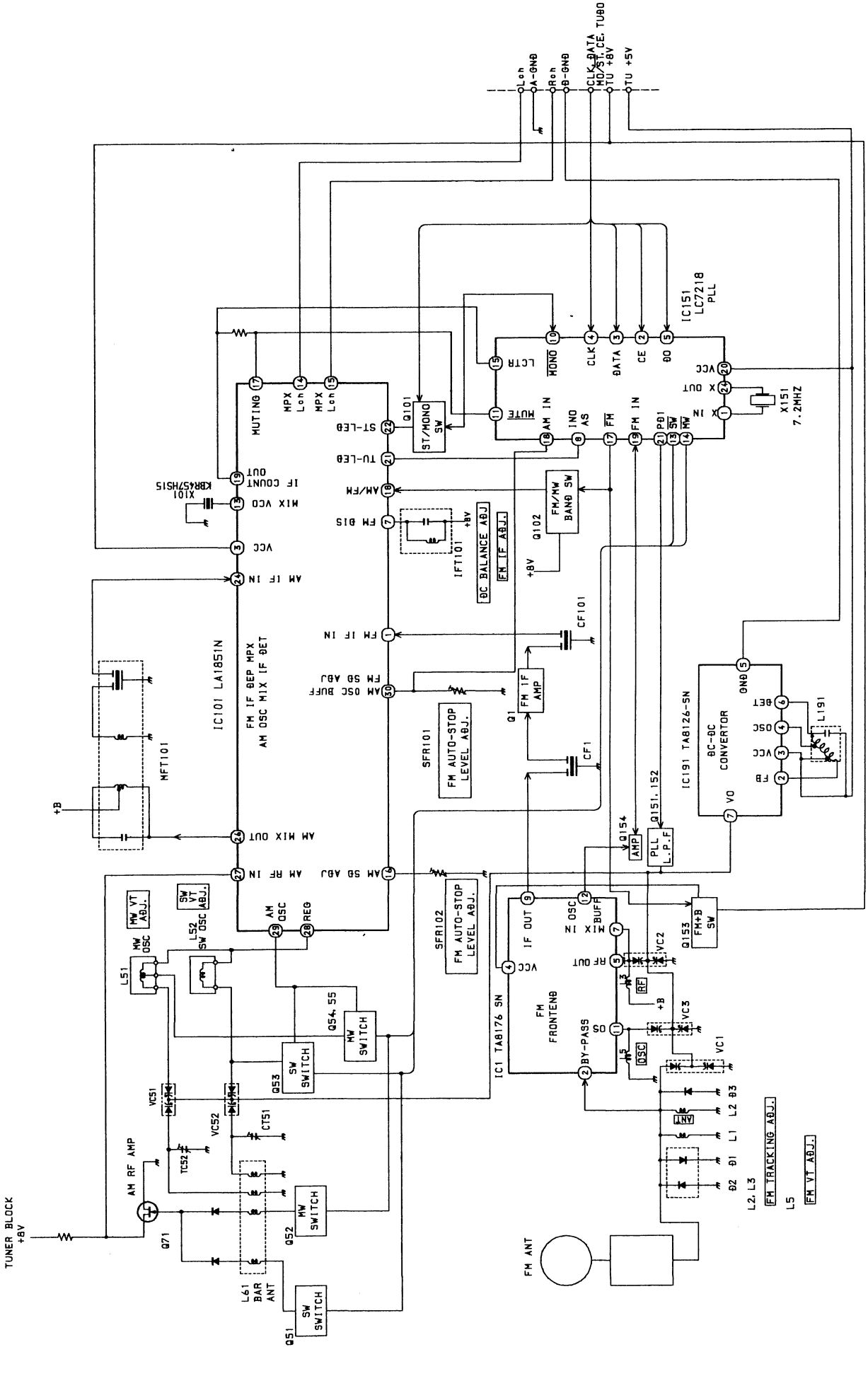
D S G

2SK161

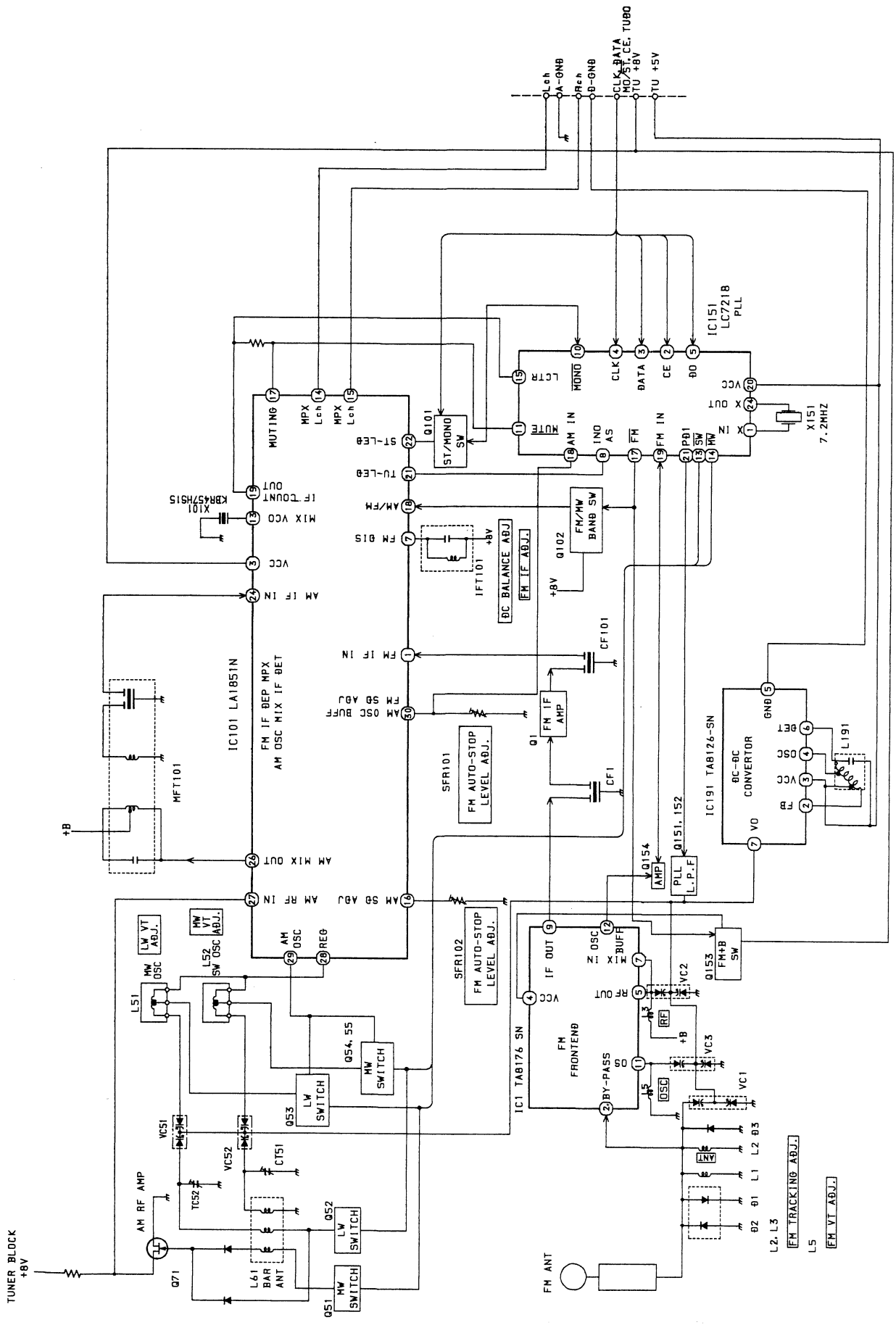
S G D

2SK246

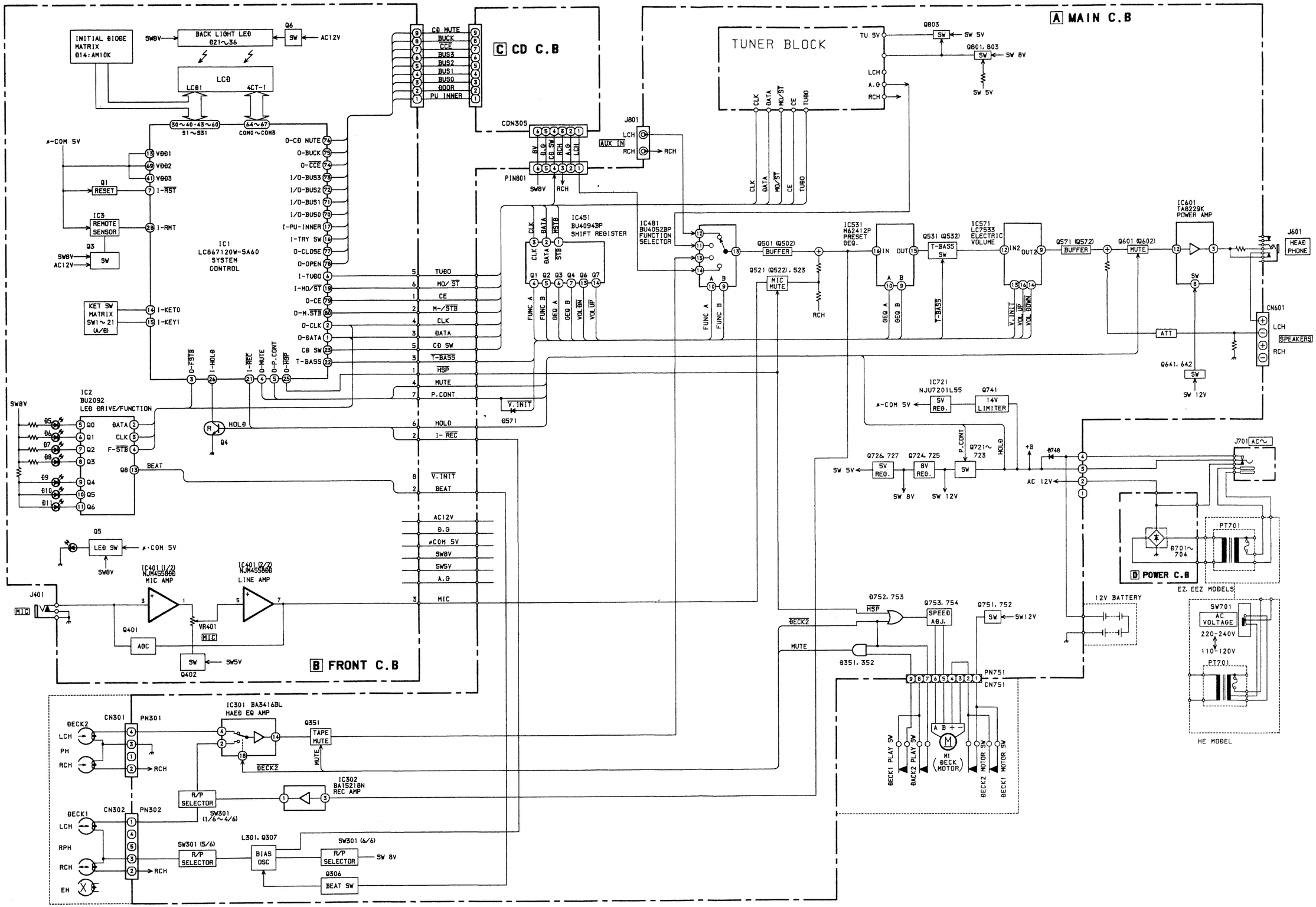
BLOCK DIAGRAM – 1 (TUNER SECTION HE MODEL)



BLOCK DIAGRAM – 2 (TUNER SECTION EZ, EEZ MODELS)



BLOCK DIAGRAM – 3 (MAIN SECTION)



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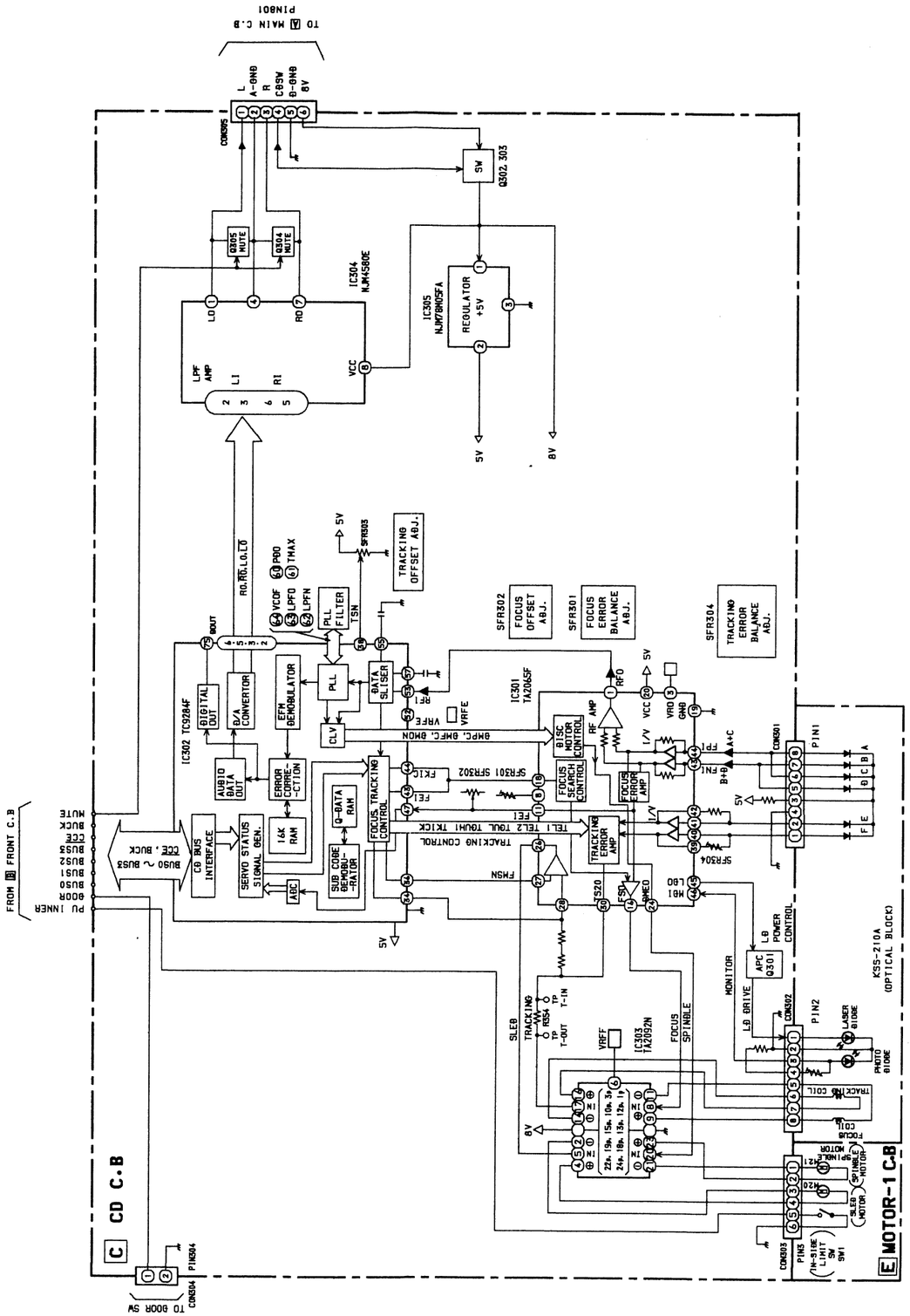
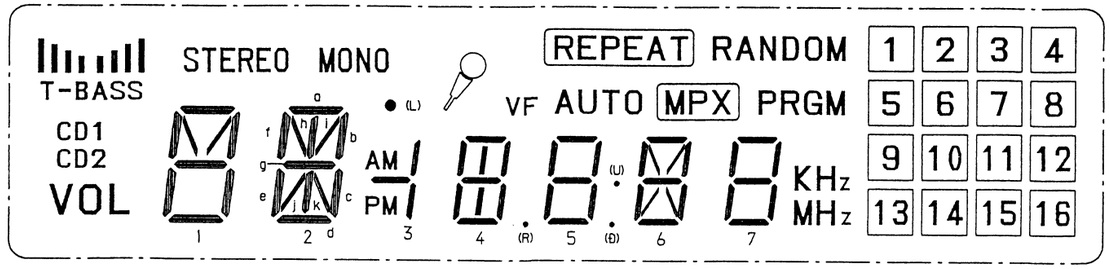


FL DISPLAY

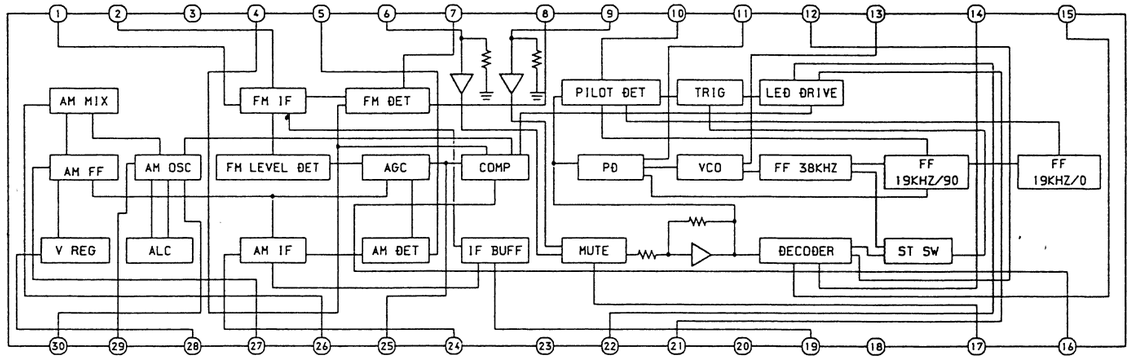


NC.	COM. 1	COM. 2	COM. 3	COM. 4
1	COM. 1			
2		COM. 2		
3			COM. 3	
4				COM. 4
5	T-BASS	CD1	CD2	VOL
6	1a	1h	1f	1a
7	STEREO	1b	1g	1d
8	2a	2f	2e	1c
9	2h	2g	2j	2c
10	2i	2b	2c	2m
11	AM	3b, 3c	3g	PM
12		4f	4g	4a
13	•(L)	4a	4i, 4k	4c
14	MONO	4b	4c	•(R)
15	5f	5g	5e	5d
16	5b	•(U)	5c	•(D)
17	5a	6f	6g	6e
18	VF	6a	6h, 6j	6d
19	AUTO	6b	6c	7e
20	REPEAT	7f	7g	7d
21	MPX	7a	7b	7c
22	RANDOM	PRGM	KHZ	MHZ
23	1	5	9	13
24	2	6	10	14
25	3	7	11	15
26	4	8	12	16

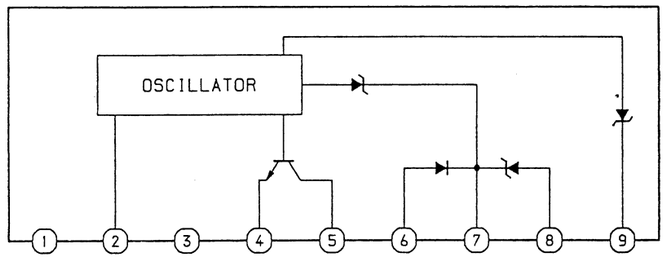
(L) : LEFT
(R) : RIGHT
(U) : UPPER
(D) : DOWN

IC BLOCK DIAGRAM – 1

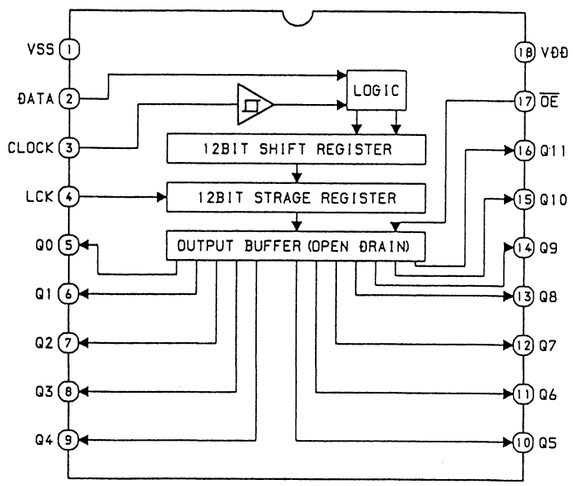
IC, LA185IN



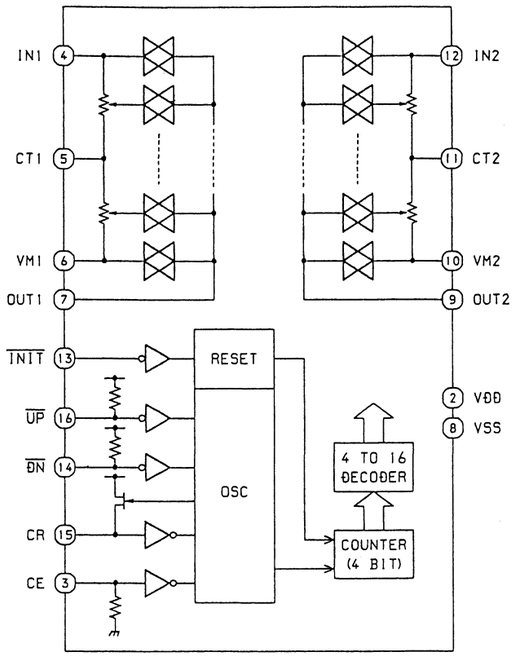
IC, TA8126S



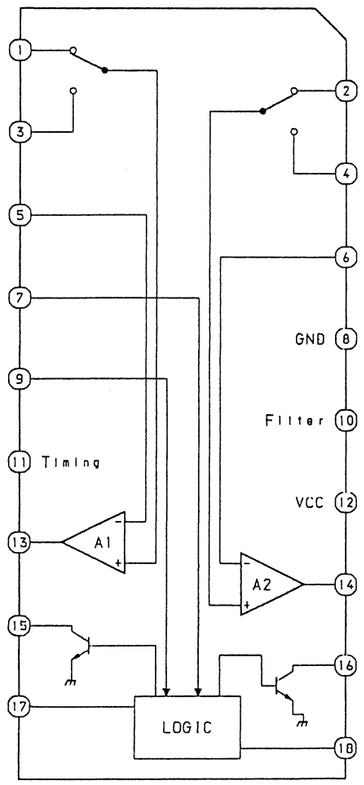
IC, BU2092F



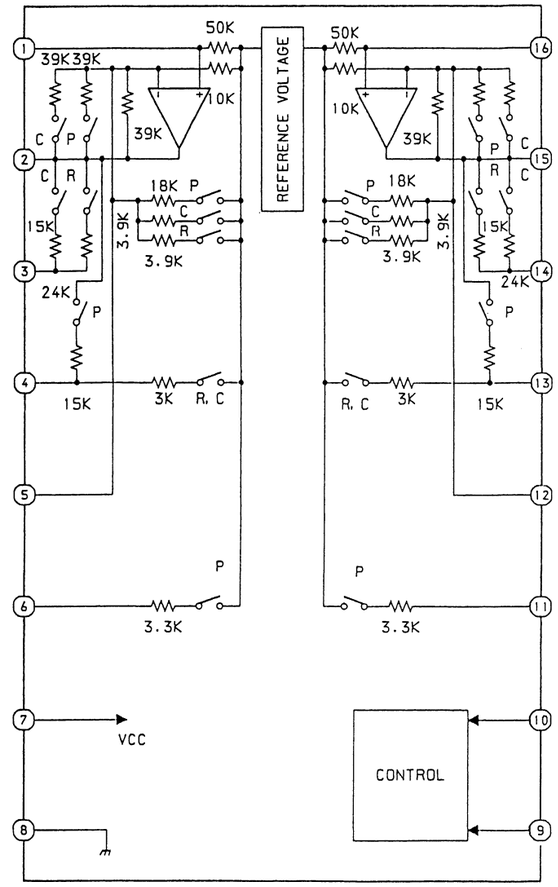
IC, LC7533



IC, BA34168L



IC, M62412P



A MAIN C.B

FM ANT

J801 AUX/VIDEO (R, L)

J602 SPEAKER
SPEAKER IMP:4Ω

BATTERY R20X8 DC12V

FROM CD C.B (CN5 / PN801)

TO B FRONT C.B (CN1)

TO B FRONT C.B (CN2)

TO B FRONT C.B (CN3)

DECK1 RPH / EH

DECK2 PH

TO A MAIN C.B PN302 (CN302)

TO A MAIN C.B PN301 (CN301)

SW1 (DECK1 MOTOR) SW2 (DECK2 MOTOR) SW3 (DECK2 PLAY) SW4 (DECK1 PLAY)

M1 (DECK MOTOR)

TO A MAIN C.B PN751 (CN751)

J601 PHONES

FROM RPH (CN302)

REC / PB

FROM PH (CN301)

FROM DECK MECHA (CN751)

D POWER C.B

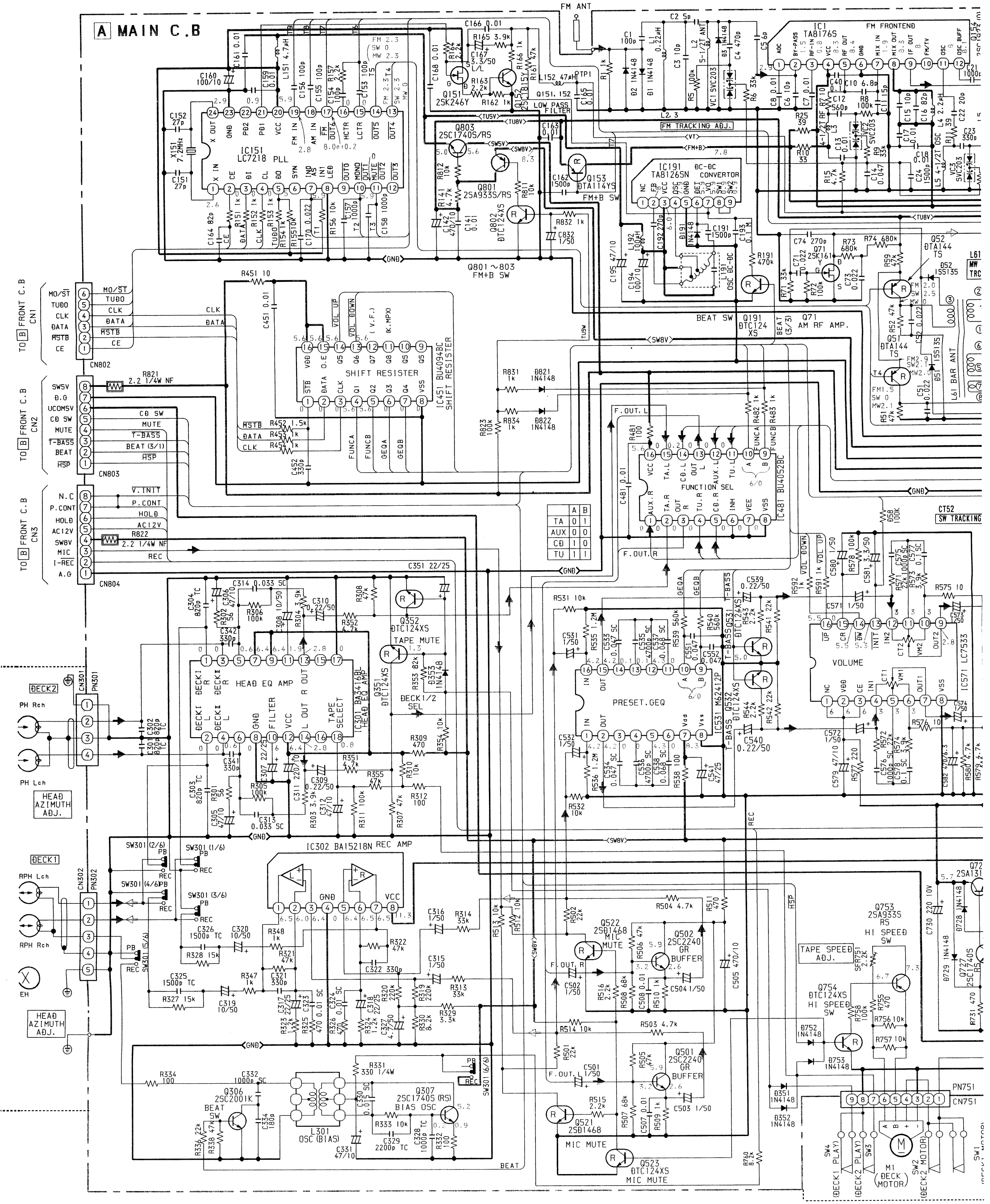
SW701 AC VOLTAGE 110-120V ◄► 220-240V

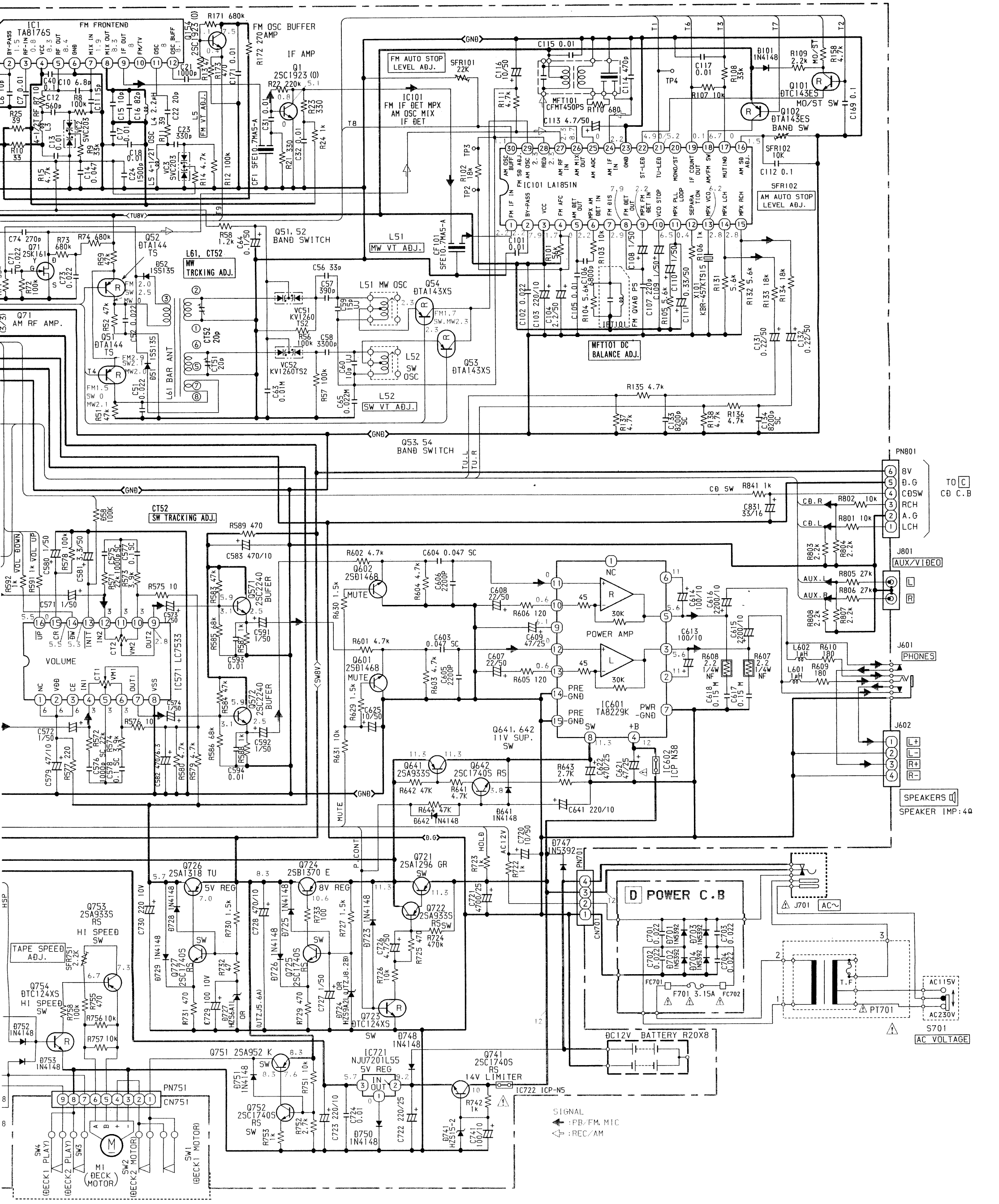
PT701

TO PN701 (CN701): BLK, RED, YEL, ORG

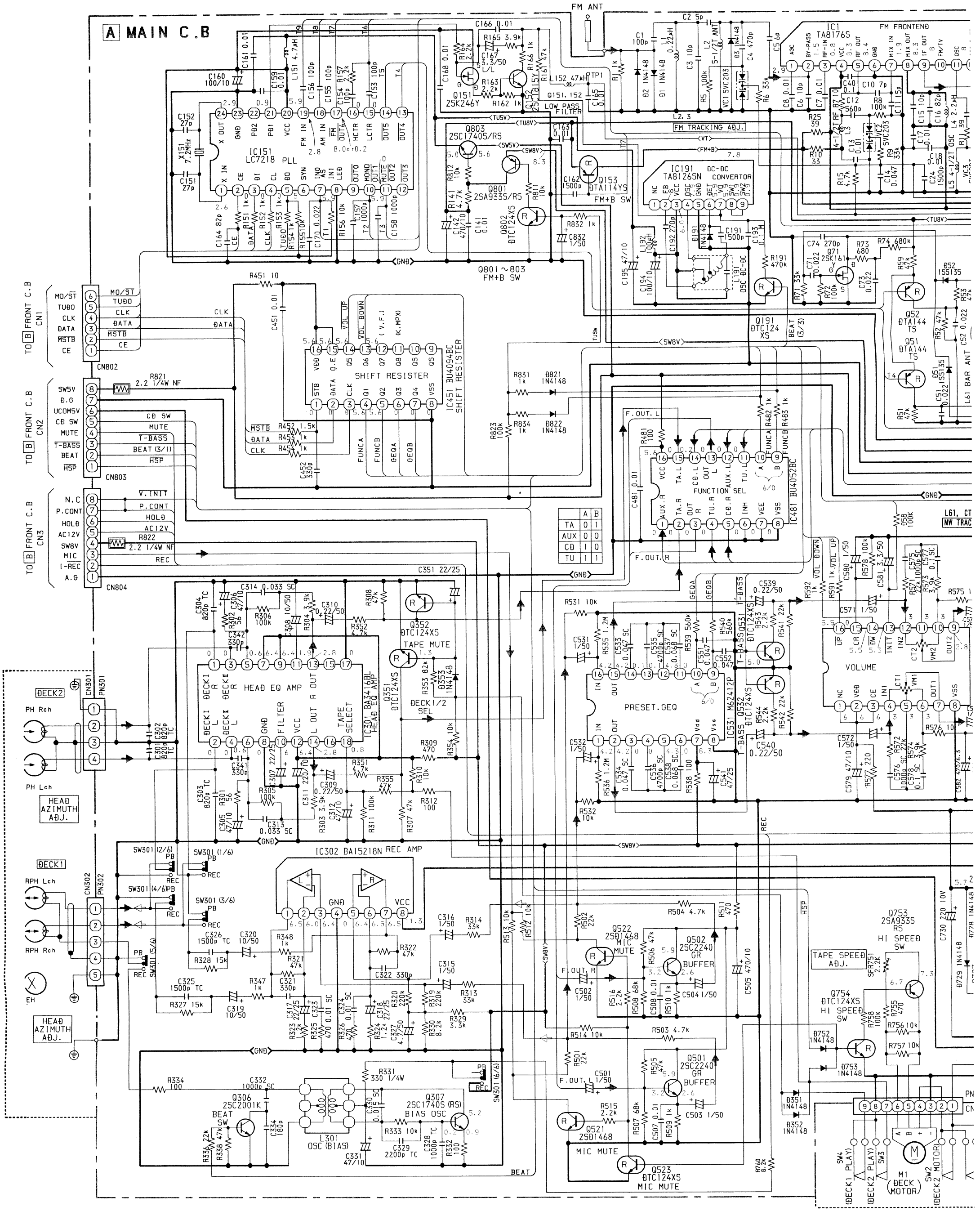
J701 AC

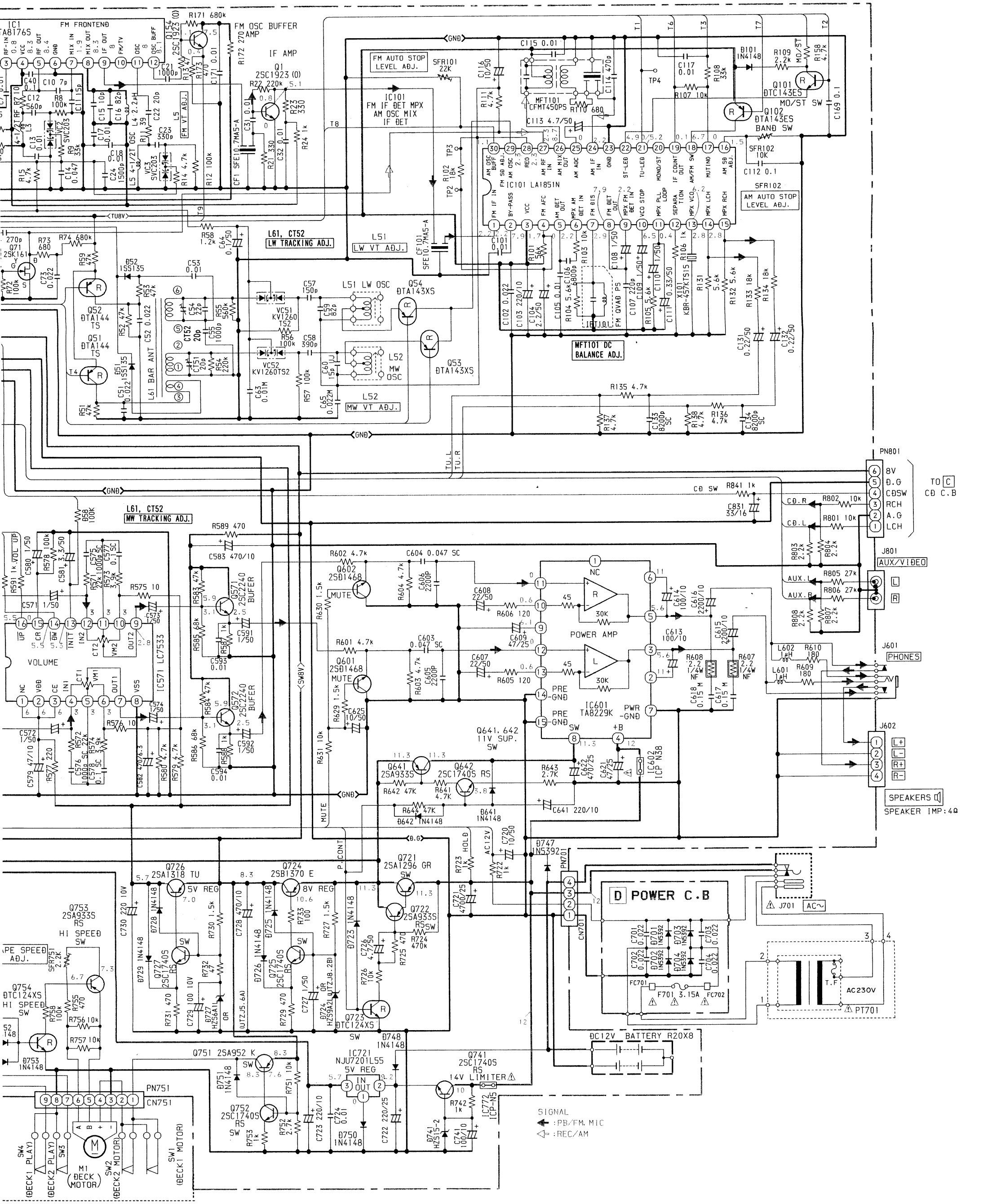
CHEMATIC DIAGRAM – 1 (MAIN SECTION HE MODEL)




IC1 TA8176S FM FRONTEND
FM OSC BUFFER AMP
IF AMP
Q1 2SC1923 (0)
FM AUTO STOP LEVEL ADJ.
SFR101 22K
IC101 FM IF DET MPX AM OSC MIX IF DET
MFT101 CFMT450PS
MFT101 DC BALANCE ADJ.
IC101 LA1851N
SFR102 AM AUTO STOP LEVEL ADJ.
SFR102 10K
Q101 DTC143ES MO/ST SW
Q102 DTA143ES BAND SW
D101 1N4148
TP4
Q51, 52 BAND SWITCH
L51 MW VT ADJ.
L61, CT52 MW TRCKING ADJ.
L51 MW OSC
Q54 DTA143XS
Q53 DTA143XS
L52 SW OSC
L52 SW VT ADJ.
Q71 AM RF AMP.
Q52 DTA144 TS
Q51 DTA144 TS
L61 BAR ANT
CT52 SW TRACKING ADJ.
IC571 LC7533
VOLUME
Q571 2SC2240 BUFFER
Q572 2SC2240 BUFFER
Q591 1/50
Q592 1k VOL DOWN
Q591 1k VOL UP
Q602 2SD1468
Q601 2SD1468
MUTE
IC601 TA8229K PWR -GND
POWER AMP
Q641, 642 11V SUP. SW
Q641 2SA933S
Q642 2SC1740S RS
IC602 ICP N38
D641 1N4148
D642 1N4148
D747 1N5392
Q721 2SA1296 GR SW
Q722 2SA933S RS SW
Q723 DTC124XS SW
Q724 2SB1370 E 8V REG
Q726 2SA1318 TU 5V REG
Q727 2SC1740S RS
Q725 2SC1740S RS
Q741 2SC1740S RS 14V LIMITER
IC721 NJU7201L55 5V REG
Q751 2SA952 K SW
Q752 2SC1740S RS SW
Q753 2SA933S RS HI SPEED SW
Q754 DTC124XS HI SPEED SW
TAPE SPEED ADJ.
D748 1N4148
D750 1N4148
D751 1N4148
D752 1N4148
D753 1N4148
D754 1N4148
IC722 ICP-N5
PN751
CN751
M1 DECK (MOTOR)
SW1 (DECK1 MOTOR)
SW2 (DECK2 MOTOR)
SW3
SW4 (DECK1 PLAY)
(DECK2 PLAY)
PN801
TO C CD C.B
CD SW
CD.R
CD.L
J801 AUX/VIDEO
AUX.L
AUX.R
J601 PHONES
J602
SPEAKERS
SPEAKER IMP:4Ω
D POWER C.B
J701 AC~
PT701
S701 AC VOLTAGE
AC115V
AC230V
T.F
FC701
FC702
F701 3.15A
DC12V BATTERY R20X8
SIGNAL
:PB/FM, MIC
:REC/AM
GND
TU8V
SW8V
TU.L
TU.R
P.CONT
HOLD
AC12V

CHEMATIC DIAGRAM – 2 (MAIN SECTION EZ, EEZ MODELS)




IC1 TA8176S FM FRONTEND
FM OSC BUFFER AMP
IF AMP
FM AUTO STOP LEVEL ADJ.
IC101 FM IF DET MPX AM OSC MIX IF DET
IC101 LA1851N
L61, CT52 LW TRACKING ADJ.
L51 LW VT ADJ.
L51 LW OSC
L52 MW OSC
L52 MW VT ADJ.
L61, CT52 MW TRACKING ADJ.
MFT101 DC BALANCE ADJ.
SFR101 FM AUTO STOP LEVEL ADJ.
SFR102 AM AUTO STOP LEVEL ADJ.
Q101 DTC143ES MO/ST SW
Q102 DTA143ES BAND SW
IC601 TA8229K PWR -GND
POWER AMP
IC571 LC7533 VOLUME
Q641, 642 11V SUP. SW
D POWER C.B
PN801
PN751
CN751
CN701
J801 AUX/VIDEO
J601 PHONES
J602
SPEAKERS
SPEAKER IMP:4Ω
TO C CD C.B
DC12V BATTERY R20X8
SIGNAL
:PB/FM. MIC
:REC/AM
M1 DECK MOTOR
SW1 (DECK1 MOTOR)
SW2 (DECK2 MOTOR)
SW3 (DECK2 PLAY)
SW4 (DECK1 PLAY)

A MAIN C.B

FM ANT

J801 AUX/VIDEO R L

J602 SPEAKER
SPEAKER IMP:4Ω

CN5 FROM C CD C.B

BATTERY R20X8 DC12V

TO B FRONT C.B (CN1)

TO B FRONT C.B (CN2)

TO B FRONT C.B (CN3)

J601 PHONES

DECK1 RPH EH

DECK2 PH

CN302 (RED) (WHT) (YEL) (GRY) (BLK) TO A MAIN C.B PN302

CN301 (RED) (WHT) (GRY) (BLK) TO A MAIN C.B PN301

SW2 (DECK2 MOTOR) SW1 (DECK1 MOTOR) SW3 (DECK2 PLAY) SW4 (DECK1 PLAY)

M1 (DECK MOTOR) (BRN) (BRN)

CN751 (RED) (BLK) (ORG) (GRN) (YEL) (PUR) (GRY) (BRN) TO A MAIN C.B PN751

PN801

CN302 FROM RPH

CN301 FROM PH

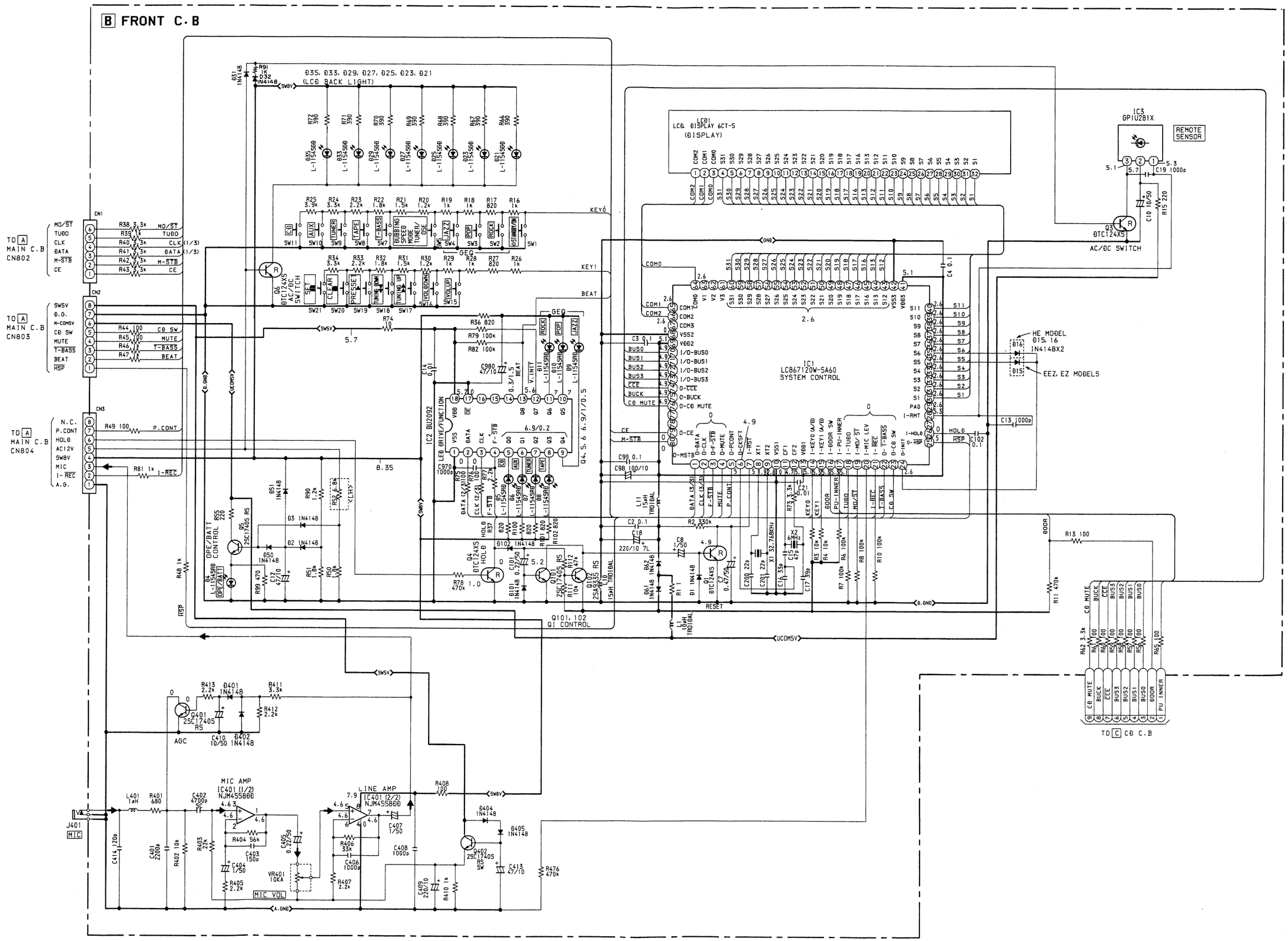
CN751 FROM DECK MECHA

TO PN701 CN701 BLK RED YEL ORG

D POWER C.B

PT701 (RED) (RED) (BLK) (GRN) (YEL) (RED)

J701 AC IN


B FRONT C.B
D35, D33, D29, D27, D25, D23, D21
(LCD BACK LIGHT)
LCD1
LCD DISPLAY 6CT-5
(DISPLAY)
IC3
GP1U281X
REMOTE SENSOR
AC/DC SWITCH
IC1
LC867120W-5A60
SYSTEM CONTROL
IC2 BU2092
LED DRIVE/FUNCTION
HE MODEL
D15, 16
1N4148X2
EEZ, EZ MODELS
TO A MAIN C.B CN802
TO A MAIN C.B CN803
TO A MAIN C.B CN804
TO C CD C.B
KEY6
KEY1
BEAT
GEQ
ROCK
POP
JAZZ
CLEAR
PRESET
TUNING DOWN
TUNING UP
VOL DOWN
VOL UP
SET
CD
AUX
TUNER
TAPE
T-BASS
DUBBING SPEED MODE TUNER/ USE
SOUND ON/OFF
Q101, 102
Q1 CONTROL
RESET
OPE/BATT CONTROL
MIC AMP
IC401 (1/2)
NJM4558DD
LINE AMP
IC401 (2/2)
NJM4558DD
MIC VOL
J401
MIC
AGC
Q401
2SC1740S
RS
SW5V
SW8V
UCOM5V
A.GND
D.GND
K.COM5V
BUCK
CCE
BUS3
BUS2
BUS1
BUS0
DOOR
PU INNER
CD MUTE

1 2 3 4 5 6 7 8 9 10 11

SW2 ROCK
SW3 POP
SW4 JAZZ
GRAPHIC EQUALIZER
Đ9 JAZZ
Đ10 POP
Đ11 ROCK
Đ4 OPE/BATT
IC3 REMOTE SENSOR
SW11 POWER ⏻ STANĐBY/ON
SW15 UP
SW16 ĐOWN
VOLUME
Đ5 SW11 CĐ
Đ6 SW10 AUX
Đ7 SW9 TUNER
Đ8 SW8 TAPE
SW18 UP ⏭ ⏩
SW18 ĐOWN ⏮ ⏪
SW19 PRESET ▶
SW20 CLEAR ■
SW21 SET ⏸
SW5 ĐUBBING SPEEĐ MOĐE TUNER/OSC
SW7 T-BASS
TUNING

PICK UP ASSY
PIN2 (REĐ)
PIN1 (WHITE)

B FRONT C.B

Đ21, Đ

R16 Đ1 R2 C7 Q1 C8 C17 C201 C200 C21 X1 X2 C15 C16 SW2 R73 IC1 C3 C4 C99 C98 L11 C2 C18 R66 R67 R68 Đ21 Đ23 R112 R111 Q102 Q101 R17 R11 R6 SW3 C101 Đ102 Đ101 Q4 R18 R19 R78 R3 R4 R13 SW4 EEZ, EZ MOĐEL Đ15 Đ16 Đ20 HE MOĐEL Đ9 R10 C12 C9 R36 R26 R411 R412 Đ402 Đ401 Q401 R416 C410 R28 R29 R27 R413 C408 R408 SW15 SW16 C407 R406 C406 IC401 R404 R403 C402 R405 C404 R402 C401 R407 R410 VR401 C405 R401 C414 L401 J401 SW17 Đ5 R37 R30 C437 SW11 R25 C409 Đ404 Đ405 C413 Q402 R31 SW18

VR401 MIC VOL
J401 MIC

E MOTOR-1 C.B

BLK
CON303 6 5 3 1
(BLK)
(ORG)
SW1 (INSIDE LIMIT SWITCH)
PIN3 6 5 3 1
M21
M21 (SLED MOTOR)
M20
M20 (SPINDLE MOTOR)
(REĐ) (BLK)
CON301 1 3 5 7 8
CON302 1 3 5 7 8
1 2 SW301 OPEN

R352 C321 R318 R319 SFR303 R322 R364 R321 R320 C320 C301 C304 C302 TP3 TP4 PIN304 (CON304) C311 SFR 302 R303 R302 C306 TP1 C305 Q301 R349 C322 C323 SFR301 CON302 L301 Đ301 C359 C358 R350 C353 C355 CON303 C350 IC303 Q303 C346 R347 R348 Q302 C348 C347 CON305

TO A MAIN C.B PIN801

F GNĐ C.B

Đ21, Đ23, Đ25, Đ27, Đ29, Đ33, Đ35
(LCĐ BACK LIGHT)

LCĐ1
(ĐISPLAY)

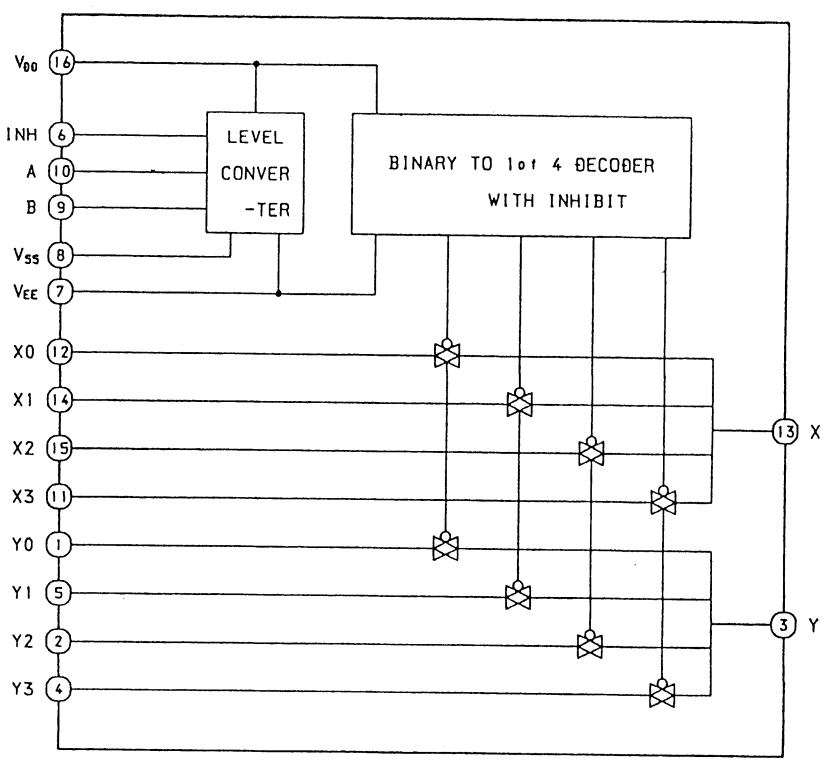
IC1
LCĐ1
IC2
IC3
Q6
Q3
Q5
CN1
SW1
CN2
CN3
HE MODEL
SW11
SW10
SW9
SW8
SW7
SW5
SW17
SW18
SW19
SW20
SW21
Q402
Q401
TO Ⓐ MAIN C.B
CN802
CN803
CN804

C CĐ C.B

CON301
SFR303
SFR 304
SFR 302
SFR301
IC301
IC302
IC303
IC304
IC305
PIN304
(CON304)
TP1
TP2
TP3
TP4
SW301
OPEN
CON302
CON303
ON305
Q303
Q302
Q305
Q306
FB1
FB2
X301
Đ301
Đ302

C BLOCK DIAGRAM – 2

IC, BU4052BF

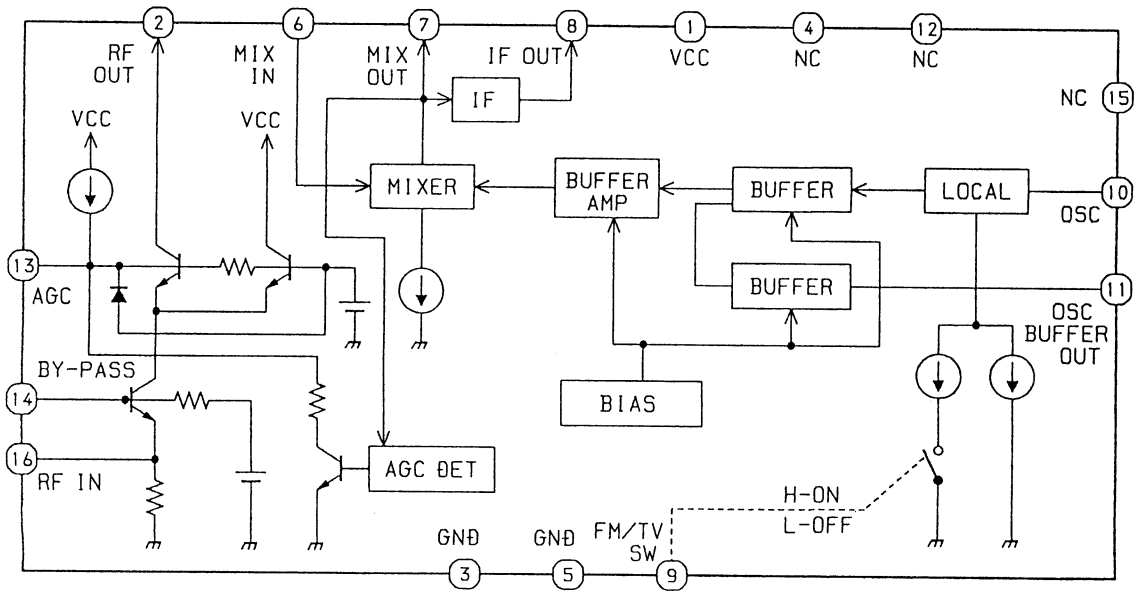


TRUTH TABLE

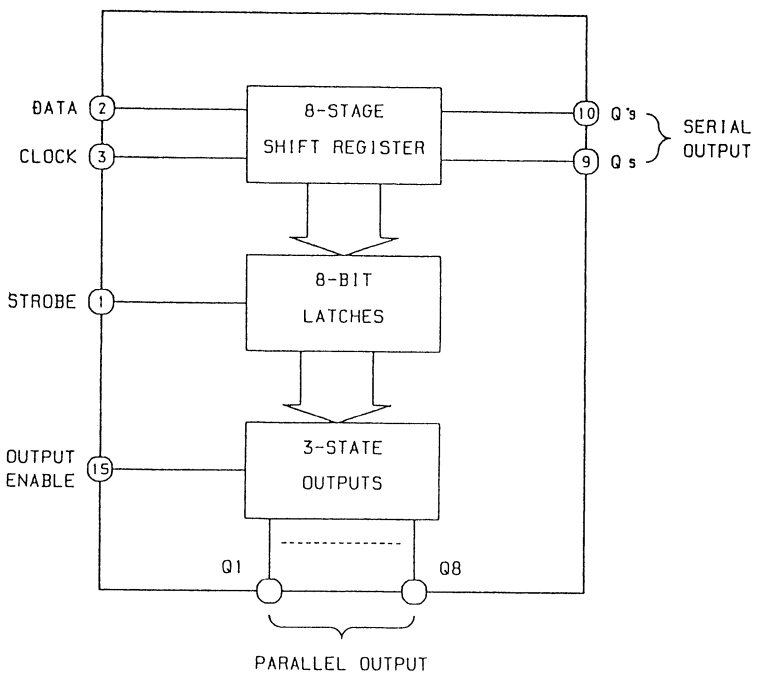
INHIBIT	A	B	ON SWITCH
L	L	L	X0. Y0
L	H	L	X1. Y1
L	L	H	X2, Y2
L	H	H	X3, Y3
H	×	×	NONE

×=Don't Care

IC, TA8176SN



IC, BU4094BF



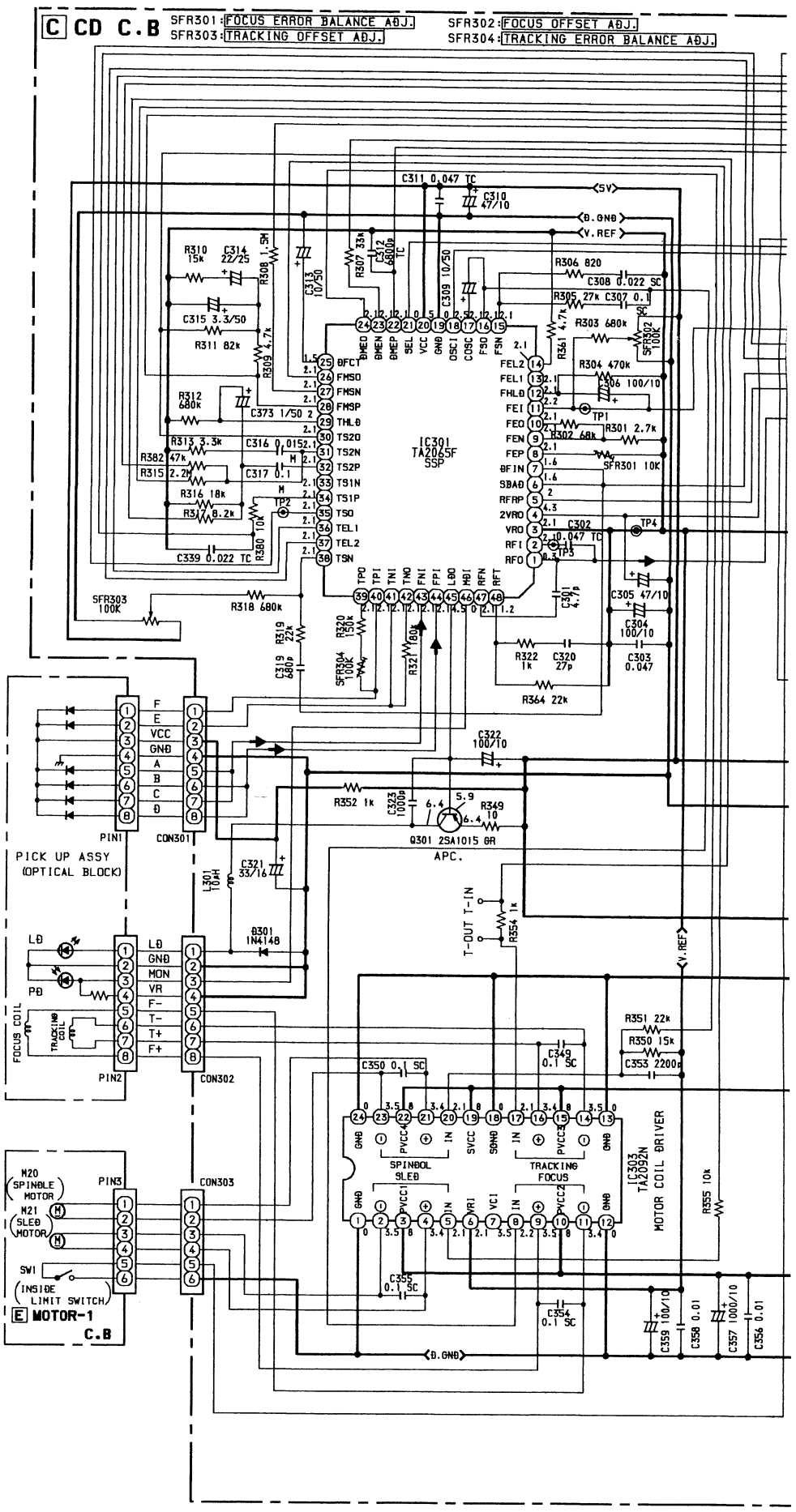
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	×	×	Z	Z	Q7	NO Chg.
↓	L	×	×	Z	Z	No Chg.	Qs
↑	H	L	×	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	×	×	No Chg.	No Chg.	No Chg.	Qs

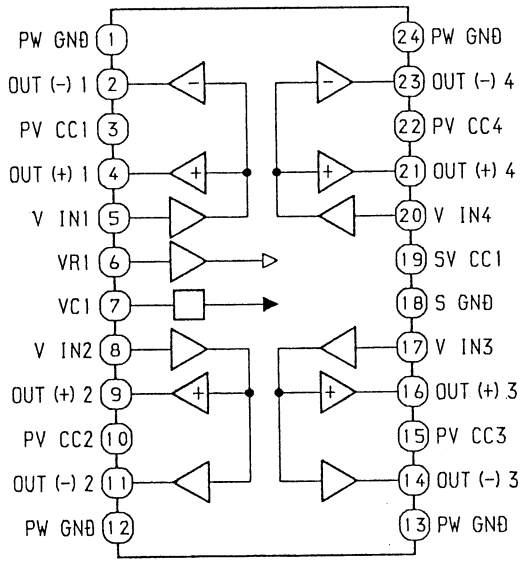
Z=High Impedance

×=Don't Care

SCHEMATIC DIAGRAM – 4 (CD SECTION)



IC, TA2092


PW GNÐ 1
OUT (-) 1 2
PV CC1 3
OUT (+) 1 4
V IN1 5
VR1 6
VC1 7
V IN2 8
OUT (+) 2 9
PV CC2 10
OUT (-) 2 11
PW GNÐ 12
24 PW GNÐ
23 OUT (-) 4
22 PV CC4
21 OUT (+) 4
20 V IN4
19 SV CC1
18 S GNÐ
17 V IN3
16 OUT (+) 3
15 PV CC3
14 OUT (-) 3
13 PW GNÐ

TO B FRONT C.B
MUTE
BUCK
CCE
BUS3
BUS2
BUS1
BUS0
ÐOOR
PU INNER
PIN304
(CON304)
CON304
ÐOOR SW
SW301
OPEN
IC302
TC9284BF
ÐSP
C372 47/10
C328 0.01
C327 0.01
C326 00/10
C370 0.1 SC
C325 0.1
X301
16.93MHz
C324 22p
FB1
BL01RN1
FB2
BL02RN1
R372 15
IC305 NJM78M05FA
+5V REG
C351 0.01
C352 470/10
R370 2.2 1/2W
C359 100/10
C358 0.01
C357 1000/10
C356 0.01
MOTOR COIL BRIVER
R355 10k
C365 120p
R358 47k
C368 120p
R371 47k
IC304 (1/2) NJM4580Ð
IC304 (2/2) NJM4580Ð
LPF AMP
LPF AMP 7.7
L302 680µH
Q304 ÐTC114TS MUTE
Q305 ÐTC114TS MUTE
Q306 ÐTA144TS MUTE
Q302 2SA1296GR +B SWITCH
R348 47k
R347 330
Q303 ÐTC124XS REG CONTROL
C348 1/50
C347 0.01
C346 0.01
CON305
8V
Ð-GNÐ
CÐSW
RCH
A-GNÐ
LCH
TO A MAIN C.B
PIN801
F GND C.B
CÐ MECHA CHASSIS

IC DESCRIPTION

IC, LC867120W-5A60

Pin No.	Pin Name	I/O	Description
1	O-DATA	O	PLL shift register data output
2	O-CLK	O	PLL shift register clock output
3	$\overline{\text{O-FSTB}}$	O	Shift register data latch strobe output
4	O-MUTE	O	Main mute output
5	O-PCONT	O	Machine power supply control output
6	O-CKSFT	O	Clock shift output. Normally: L, ON: OPEN
7	$\overline{\text{RST}}$	I	Microprocessor reset
8	XT1	I	Connected to 32.768 kHz crystal
9	XT2	O	Connected to 32.768 kHz crystal
10	VSS1	–	GND
11	CF1	I	Connected to 6 MHz ceramic lock
12	CF2	O	Connected to 6 MHz ceramic lock
13	VDD1	–	Microprocessor power supply (5 V)
14	I-KEY0	I	Key A/D input
15	I-KEY1	I	Key A/D input
16	I-DOOR SW	I	CD door SW input
17	I-PU-INNER	I	CD inside limit switch input
18	I-TUDO	I	PLL IC tuner data input
19	I-MO/$\overline{\text{ST}}$	I	Tuner stereo detection
20	I-MICLEV	I	Microphone level detection
21	I-$\overline{\text{REC}}$	I	N. C
22	$\overline{\text{O-T-BASS}}$	O	T-bass circuit ON/OFF switch output (ON: L)
23	O-CDSW	O	CD block power supply control output (ON: H)
24	O-INIT	O	Initial setting output
25	$\overline{\text{O-HSP}}$	O	High speed dubbing selector output (ON: L)
26	I-HOLD	I	Hold backup mode at "H"
27	–	I	N. C
28	I-RMT	I	Remote control input
29	PAO	I	Initial setting input
30	S1	O	LCD segment output
31~40	S2~S11	O	LCD segment output and initial setting output at the same time
41	VDD3	–	Microprocessor power supply
42	VSS3	–	GND

Pin No.	Pin Name	I/O	Description
43	S12	O	LCD segment output
44	S13	O	LCD segment output
45~60	S16~S31	O	LCD segment output
61	V3	–	LCD drive bias power supply
62	V2	–	LCD drive bias power supply
63	V1	–	LCD drive bias power supply
64	COM0	O	LCD common output
65	COM1	O	LCD common output
66	COM2	O	LCD common output
67	COM3	O	N. C
68	VSS2	–	GND
69	VDD2	–	Microprocessor power supply (5 V)
70	I/O BUS0	I/O	CD IC control data bus input/output
71	I/O BUS1	I/O	CD IC control data bus input/output
72	I/O BUS2	I/O	CD IC control data bus input/output
73	I/O BUS3	I/O	CD IC control data bus input/output
74	$\overline{\text{O-CCE}}$	O	CD IC control chip enable output
75	O-BUCK	O	CD IC control data bus clock output
76	O-CDMUTE	–	N. C
77	–	–	N. C
78	–	–	N. C
79	O-CE	O	PLL chip enable output
80	O-MSTB	O	Shift register (MAIN C. B.) data latch strobe output.

IC, TC9284BF

Pin No.	Pin Name	I/O	Description
1	GNDA	–	D/A converter R-channel analog GND
2	RO	O	R-channel data positive output
3	$\overline{\text{RO}}$	O	R-channel data inverted output
4	VDA	–	D/A converter power supply (+5 V)
5	$\overline{\text{LO}}$	O	L-channel data inverted output
6	LO	O	L-channel data positive output
7	GNDA	–	D/A converter L-channel analog GND
8~10	$\overline{\text{TEST3}}$~$\overline{\text{TEST5}}$	I	TEST pin. Normally "H" (+5 V)
11	SBOK	O	Sub code data CRCC judgment result output. Judgment result OK: H (Not used)
12	VDDD	–	Digital power supply (+5 V)
13	GNDD	–	Digital GND
14~17	BUS0~BUS3	I/O	Microprocessor interface, data input/output
18	$\overline{\text{CCE}}$	I	Microprocessor interface, chip enable signal input. When "L" : BUS 3~0 are active.
19	BUCK	I	Microprocessor interface, clock input
20	PFCK	O	PB frame sync output
21	$\overline{\text{RST}}$	I	Reset signal input. "L" at reset
22	SUBSYC	O	Sub code block sync output. When sub code is detected, "H" at S1 position.
23	SUBD	O	Sub code P~W output
24	CLCK	I	Sub code P~W data read clock input
25	VDDD	–	Digital power supply (+5 V)
26	GNDD	–	Digital GND
27	DFCT	O	Defect detection signal output. When defect is detected: "VREF", or "HiZ"
28, 29	TEL2, TEL1	O	Tracking gain adjustment analog switch output. "VREF", or "HiZ"
30	TGUL	O	Analog switch output for tracking servo gain up. Polarity in gain-up mode and normal mode can be selected by command.
31, 32	TGUH2, TGUH1	O	Analog switch output for tracking servo gain up. "HiZ" for gain-up, normally "VREF". TGUH1 during normal playback, TGUH2: not used.
33	TKIC	O	Tracking actuator kick signal output. NKICx and CKICx are used for kick during tracking gain adjustment. "2VREF" for outermost track. "O" for moving toward inner track. Normally "HiZ".
34	FMON	O	Analog switch output to turn ON/OFF the feed servo "HiZ" to turn ON servo. "VREF" to turn OFF servo.
35	$\overline{\text{TEST1}}$	I	TEST pin. Normally "H" (Connected to +5 V)
36	FMFB	O	Feed motor FWD/BWD direction control signal output. "2VREF" for outmost track. "O" for moving toward inner track. Normally "HiZ"

Pin No.	Pin Name	I/O	Description
37	$\overline{\text{TEST}}$	I	TEST pin. Normally "H" or open (Connected to +5 V)
38	DMON	O	Analog switch output to select gain of the disc motor drive circuit. "HiZ" for CLV servo OFF, "HiZ" or "VREF" can be selected by command.
39	DMFC	O	Disc motor CLV servo AFC signal output Operation / Command / DMFC output Motor acceleration / DMFK / "2VREF" CLV servo ON / DMSV / AFC signal (PWM) Motor brake / DMBK / "L" CLV servo OFF / DMOFF / "VREF"
40	DMPC	O	Disc motor CLV servo APC signal output
41	2VREF	–	Analog power supply (twice the "VREF" voltage)
42	SEL	O	Servo mode select output. It turns ON/OFF the laser diode (LD) and focus servo. SEL output / LD / Focus servo / Operating mode "L" / OFF / OFF / LD OFF "HiZ" / ON / OFF / Focus search "H" / ON / ON / Focus ON (normal play)
43	FCSI	O	Focus actuator drive signal output during focus search mode. "VDDA" to move the lens far from disc. "L" to move the lens closer to disc. Normally "HiZ"
44	FKIC	O	Focus actuator drive signal output during focus search mode. "VDDA" to move the lens far from disc. "L" to move the lens closer to disc. Normally "HiZ" (Not used)
45, 46	FEL1, FEL2	O	Focus gain adjustment analog switch output. "VREF" or "HiZ" (Not used)
47	FEI	I	Focus error signal input
48	TESH	I	Analog switch input to track error signal sample-and-hold
49	TEOF	O	Focus gain adjustment analog switch output. "VREF" or "HiZ"
50	SBAD	I	Sub beam added signal input
51	RFRP	I	RF ripple signal input
52	VREF	–	Analog power supply
53	RFI	I	RF signal input
54	GNDA	–	Analog GND
55	DTSC 2	O	Data slice control EFM signal iverted output
56	MONI T	O	Internal signal monitored output. EFMO, PLCK or LOCK signals can be selected by command. Can be muted (Not used)
57	DTSC 1	O	Data slice control EFM signal positive polarity output
58	VDDA	–	Analog power supply (+5 V)

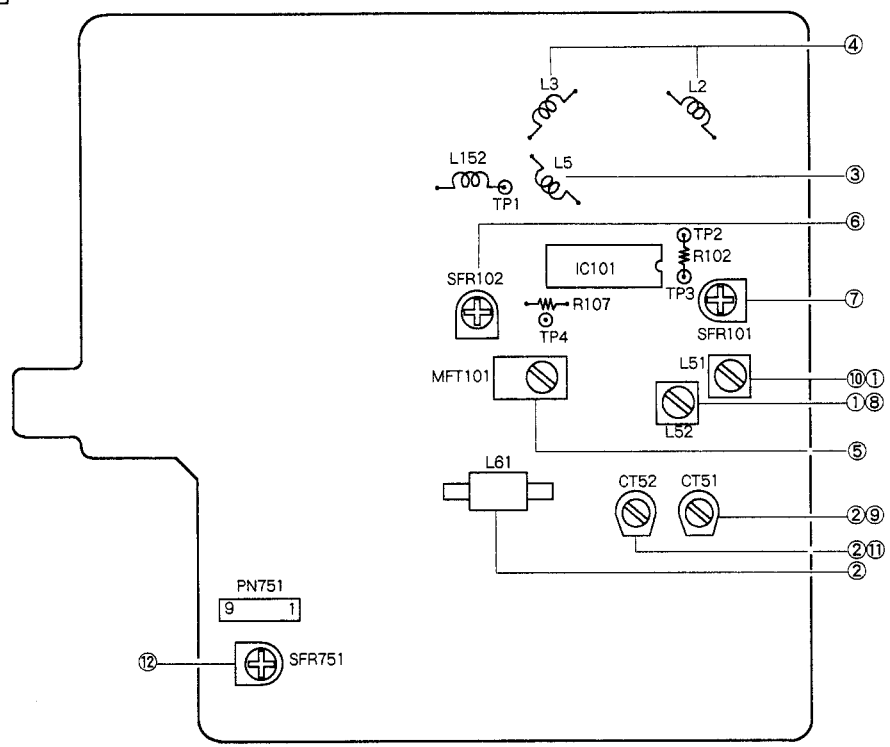
Pin No.	Pin Name	I/O	Description
59	PDCNT	I	PDO output control signal input. "L" to fix to "HiZ" forcibly. "H" : normal output (Connected to +5 V)
60	PDO	O	Phase error signal between EFM and PLCK signals is output.
61	TMAX	O	TMAX detected result output TMAX detected result / TMAX output Longer than specified cycle / "L" Shorter than specified cycle / "2VREF" Within specified cycle / "HiZ"
62	LPFN	I	Low-pass filter amplifier inverted input
63	LPFO	O	Low-pass filter amplifier output
64	VCOF	O	VCO filter output
65	TESTX	I	TEST pin. Normally "H" or "L" (Connected to +5 V)
66	COFS	O	Correction circuit frame clock (7.35 kHz) output (Not used)
67	GNDD	–	Digital GND
68	SPDA	O	Processor status signal output (Not used)
69	$\overline{\text{HS}}$	O	Double speed mode output. "H" : normal speed. "L" : double speed. (Not used)
70	WDCK	O	Word clock (88.2 kHz) output. SUBQ, BUF0V or 1PF can be selected by the microprocessoer command. (Not used)
71	CHCK	O	Channel clock (44.1 kHz) output. "L" for L-channel. "H" for R-channel (Not used)
72	BCK	O	Bit clock (1.4112 MHz) output (Not used)
73	AOUT	O	Audio data output (Not used)
74	EMPH	O	Emphasis ON/OFF select signal. "H": empahsis ON. "L" for emphasis OFF. (Not used)
75	DOUT	O	Digital signal output
76	$\overline{\text{TEST2}}$	I	TEST pin. Normally "H" (Connected to +5 V)
77	VDDX	–	Crystal oscillator circuit power supply (+5 V)
78	XI	I	External crystal oscillator is connected. (Crystal oscillator frequency 16.9344 MHz)
79	XO	O	External crystal oscillator is connected. (Crystal oscillator frequency 16.9344 MHz)
80	GNDX	–	Crystal oscillator GND

IC, TA2065F

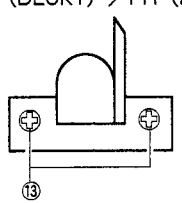
Pin No.	Pin Name	I/O	Description
1	RFO	O	RF amp (RF AMP) output terminal
2	RFI	I	RF ripple signal generating circuit input terminal
3	VRO	O	VR amp output terminal
4	2VRO	O	2VR amp output terminal
5	RFRP	O	RF ripple signal output terminal
6	SBAD	O	Defects detection signal output terminal
7	DFIN	I	Defect detecting comparator positive phase input terminal
8	FEP	I	Focus error balance adjusting input terminal
9	FEN	I	Focus error amp (FE AMP) negative phase input terminal
10	FEO	O	Focus error amp (FE AMP) output terminal
11	FEI	I	Focus output amp (FS AMP) positive phase input terminal
12	FHLD	I	Hold switch terminal for defect
13, 14	FEL1, FEL2	I	Focus gain adjusting terminal
15	FSN	I	Focus output amp (FS AMP) negative phase input terminal
16	FSO	O	Focus output amp (FS AMP) output terminal
17	COSC	O	Focus search signal generating capacitor connecting terminal
18	OSCI	I	Focus search signal generating built-in current source control input terminal
19	GND	–	Ground terminal
20	VCC	–	Power source terminal
21	SEL	I	Analog switch control signal input terminal
22	DMEP	I	Disc motor amp (DM AMP) positive phase input terminal
23	DMEN	I	Disc motor amp (DM AMP) negative phase input terminal
24	DMEO	O	Disc motor amp (DM AMP) output terminal
25	DFCT	I	Defect detecting comparator negative phase input terminal
26	FMSO	O	Feed motor output amp (FMS AMP) output terminal
27	FMSN	I	Feed motor output amp (FMS AMP) negative phase input terminal
28	FMSP	I	Feed motor output amp (FMS AMP) positive phase input terminal
29	THLD	I	Hold switch terminal for defect
30	TS2O	O	Tracking servo amp 2 (TS2 AMP) output terminal
31	TS2N	I	Tracking servo amp 2 (TS2 AMP) negative phase input terminal
32	TS2P	I	Tracking servo amp 2 (TS2 AMP) positive phase input terminal
33	TS1N	I	Tracking servo amp 1 (TS1 AMP) negative phase input terminal
34	TS1P	I	Tracking servo amp 1 (TS1 AMP) positive phase input terminal
35	TSO	O	Tracking output amp (TS AMP) output terminal
36, 37	TEL1, TEL2	I	Tracking gain adjusting terminal
38	TSN	I	Tracking output amp (TS AMP) negative phase input terminal
39	TPO	O	Sub-beam I-V amp output terminal
40	TPI	I	Sub-beam I-V amp input terminal
41	TNI	I	Sub-beam I-V amp input terminal
42	TNO	O	Sub-beam I-V amp output terminal
43	FNI	I	Main-beam I-V amp input terminal
44	FPI	I	Main-beam I-V amp input terminal
45	LDO	O	Laser diode amp output terminal
46	MDI	I	Monitor photo diode amp input terminal
47	RFN	I	RF amp negative phase input terminal
48	RFT	I	RF amp peaking terminal

ADJUSTMENT

A MAIN C.B



RPH (DECK1) /PH (DECK2)



< TUNER SECTION >

1. MW VT Adjustment
   Settings : • Test point : TP1
   • Adjustment location : L51 (HE), L52 (EZ, EEZ)
   Method : Set to MW 531 kHz adjust L51 (HE), L52 (EZ, EEZ) so that the test point becomes 1.3 V ± 0.05 V.

2. MW Tracking Adjustment
   CT51 (EZ, EEZ), CT52 (HE) ..... 603 kHz
   L61 ..... 1404 kHz

3. FM VT Adjustment
   Settings : • Test point : TP1
   • Adjustment location : L5
   Method : Set to FM 87.5 MHz and check that the test point is 4.0 V ± 0.3 V.

4. FM Tracking Adjustment
   L2, 3 ..... 87.5 MHz

5. DC Balance/MONO Distortion Adjustment
   Settings : • Test point : TP2, TP3
   • Adjustment location : MFT101
   • Input level : 54 dB
   Method : Set to FM 98.0 MHz and adjust MFT101 so that the voltage between TP2 and TP3 becomes 0 ± 0.02 V.

6. MW Tuning Adjustment
   Settings : • Adjustment location : SFR102
   Method : Make setup for MW 999 kHz. Adjust SFR102 so that the machine performs Auto Stop when 50 ± 2 dB is input.

   * Confirm that TP4 is "L" at this time.

7. FM Tuning Adjustment
   Settings : • Adjustment location : SFR101
   Method : Make setup for FM 98.0 MHz. Adjust SFR101 so that the machine performs Auto Stop when 33 ± 5 dB is input.

8. SW VT Adjustment (HE only)
   Settings : • Test point : TP1
   • Adjustment location : L52
   Method : Set to SW 3.8 MHz adjust L63 so that teh test point becomes 1.4 V ± 0.3 V.

9. SW Tracking Adjustment (HE only)
   CT51 ..... 12.5 MHz

10. LW VT Adjustment (EZ, EEZ only)
    Settings : • Test point : TP1
    • Adjustment location : L51
    Method : Set to LW 153 kHz adjust L51 so that the test point becomes 2.0 V ± 0.05 V.

11. LW Tracking Adjustment (EZ, EEZ only)
    L61 ..... 153 kHz
    CT52 ..... 285 kHz

< TAPE SECTION >

12. Tape Speed Adjustment (DECK2)
    Settings : • Test tape : TTA-100 (TTA-111S)
    • Adjustment location : SFR751
    Method : Play back the test tape with DECK1 and adjust SFR751 so that the output frequency is 3000 Hz. After the adjustment, check that the frequency of DECK2 is 3000 ± 45 Hz.

13. Azimuth Adjustment (DECK1, DECK2)
    Settings : • Test tape : TTA-320
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 8 kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

PRACTICAL SERVICE FIGURE

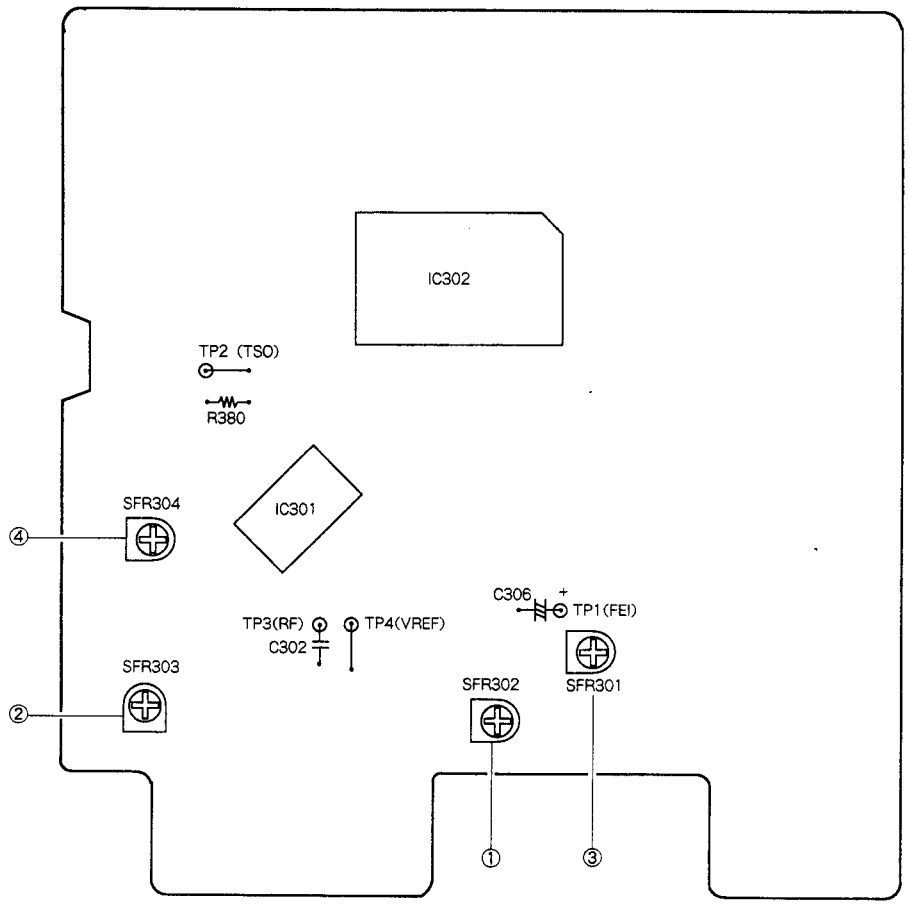
< RADIO SECTION >

(FM)	
Frequency range :	87.5~108.0 MHz
IHF Sensitivity :	18.0 ± 5.0 dB (at 87.5 MHz)
(Distortion 3%)	19.0 ± 5.0 dB (at 98.0, 108.0 MHz)
S/N ratio :	60 ± 5 dB (at 98.0 MHz)
Intermediate frequency :	10.7 MHz
Stereo separation :	More than 20 dB
(MW)	
Frequency range :	531~1602 kHz
Sensitivity :	50 ± 5 dB (at 603 kHz)
	45 ± 5 dB (at 999 kHz)
	47 ± 5 dB (at 1404 kHz)
Intermediate frequency :	450 kHz
(SW) (HE MODEL)	
Frequency range :	3.8~12.5 MHz
Sensitivity :	47 ± 5 dB (at 3.8 MHz)
	40 ± 5 dB (at 8.2 MHz)
	37 ± 5 dB (at 12.5 MHz)
Intermediate frequency :	450 kHz
(LW) (EEZ, EZ MODEL)	
Frequency range :	153~288 kHz
Sensitivity :	59 ± 5 dB (at 153 kHz)
	56 ± 5 dB (at 207 kHz)
	51 ± 5 dB (at 288 kHz)
Intermediate frequency :	450 kHz

< TAPE RECORDER SECTION >

Recording bias frequency :	61 kHz
Erasing ratio (W/FILTER) :	50 dB
Distortion (T, H, D 10%) :	Less than 3.0% (PB)
S/N ratio :	40 dB (AC/DC, PB)
	37 dB (AC, REC/PB)
Noise (PB) :	Less than 1 mV/0.6 mV (AC/DC, MIN)
Tape speed :	3000 ±90 Hz
Wow & flutter :	Less than 0.4% (JIS, UN WTD)
Take-up torque :	45 ± 15 g-cm
F.F & REW torque :	100 ± 30 g-cm

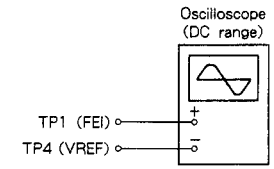
[C] CD C.B



CD SECTION

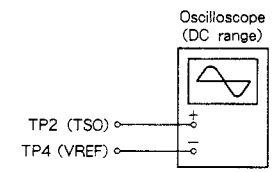
Note : Connect a probe (10 : 1) of the oscilloscope to a test point.

1. Focus offset Adjustment



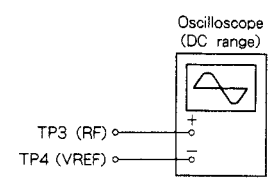
(1) Make short-circuit between TP3 (RF) and TP4 (VREF) by wire.
(2) Connect an oscilloscope between test points TP1 (FEI) and TP4 (VREF).
(3) Turn on the main power to the CD player.
(4) Insert the test disc TCD-782 (YEDS-18) and reads the TOC data.
(5) Adjust SFR302 so that the offset level is 0 ± 10 mV.
(6) Remove short-circuit after completing adjustment.

2. Tracking offset Adjustment

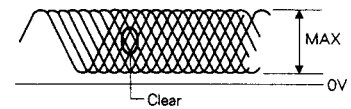


(1) Make short-circuit between TP3 (RF) and TP4 (VREF) by wire.
(2) Connect an oscilloscope between test points TP2 (TSO) and TP4 (VREF).
(3) Turn on the main power to the CD player.
(4) Insert the test disc TCD-782 and reads the TOC data.
(5) Adjust SFR303 so that the offset level is 0 ± 10 mV.
(6) Remove short-circuit after completing adjustment.

3. Focus Balance Adjustment
Make the focus bias adjustment when replacing and repairing the optical block.

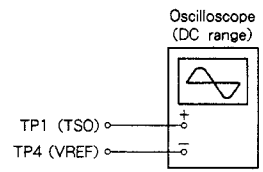


(1) Connect an oscilloscope to test points TP3 (RF) and TP4 (VREF).
(2) Turn on the power switch.
(3) Insert the test disc TCD-782 (YEDS-18) and play back the second composition.
(4) Adjust SFR301 so that the level of RF wave to be maximum and clear.

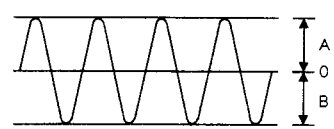


Volt/Div : 20 mV
Time/Div: 0.2 μ s

4. Tracking Balance Adjustment



(1) Connect an oscilloscope to test points TP2 (TSO) and TP4 (VREF).
(2) Turn on power switch.
(3) Insert test disc TCD-782 (YEDS-18) and press the PLAY (▶) button.
(4) Push and hold the ▶▶ button. (MS mode)
(5) Adjust SFR304 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.



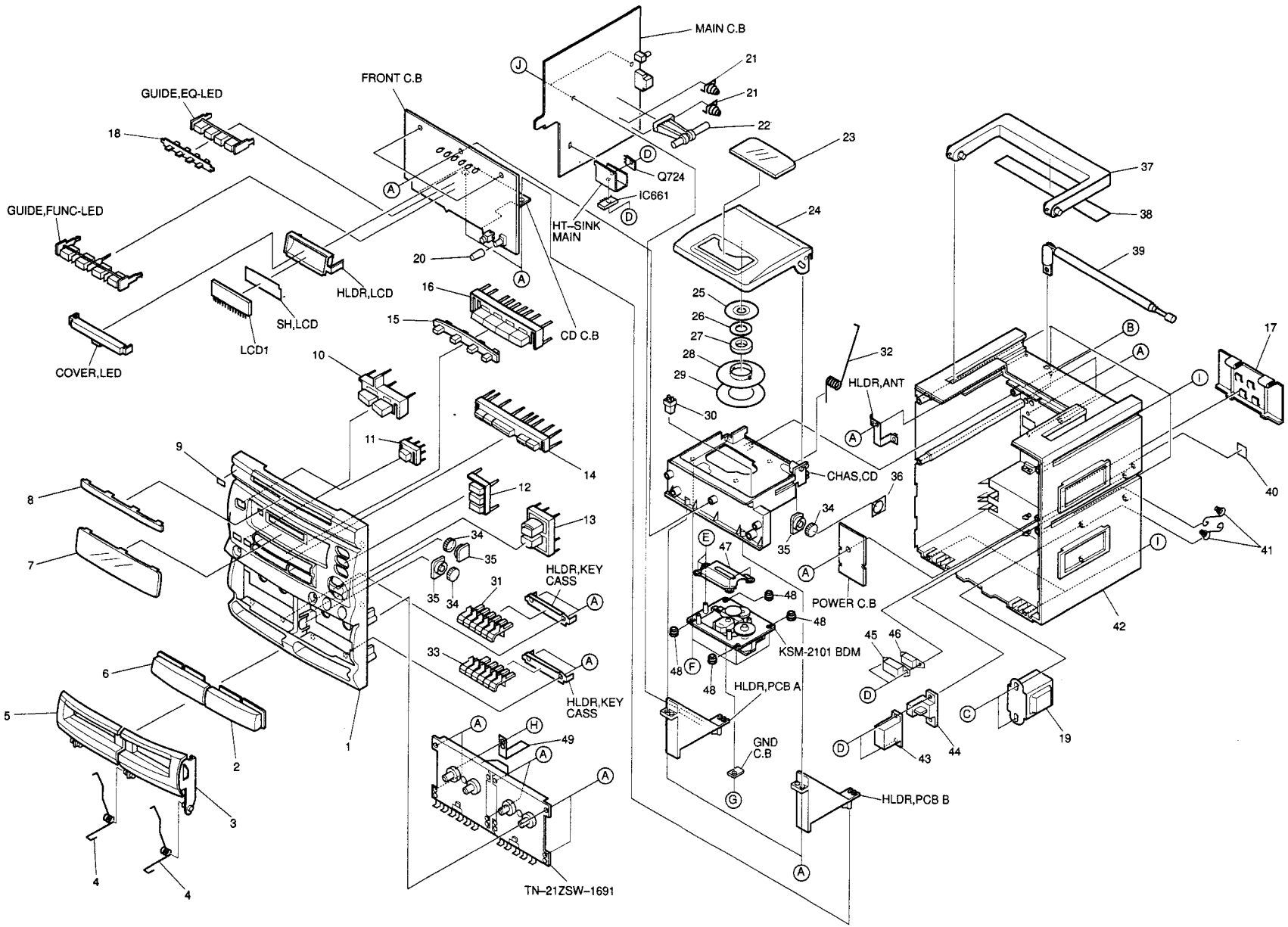
A = B

MECHANICAL PARTS LIST 1／1

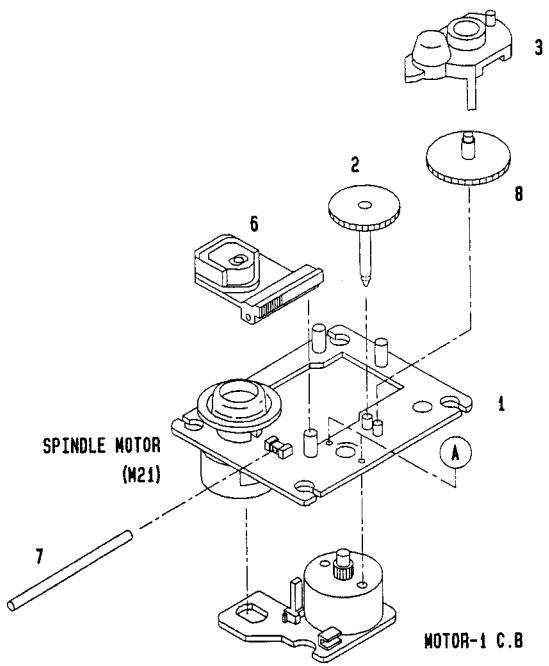
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	86-CT5-001-016		CABI, FR
2	86-CT4-011-016		WINDOW, CASS 2
3	86-CT4-007-016		BOX, CASS 2<EEZ,EZ>
3	86-CT4-039-016		BOX, CASS 2H<HE>
4	86-CT4-209-016		SPR-T, CASS
5	86-CT4-006-016		BOX, CASS 1<EEZ,EZ>
5	86-CT4-038-016		BOX, CASS 1H<HE>
6	86-CT4-010-016		WINDOW, CASS 1
7	86-CT4-016-016		WINDOW, DISP
8	86-CT5-007-016		WINDOW, CENTER
9	86-CT4-035-016		BADGE, AIWA 30N
10	86-CT4-026-016		BTN, DSL<EEZ,EZ>
10	86-CT4-046-016		BTN, DSL H<HE>
11	86-CT4-025-016		BTN, PWR<EEZ,EZ>
12	86-CT4-028-016		BTN, EQ<EEZ,EZ>
12	86-CT4-048-016		BTN, EQ H<HE>
13	86-CT4-029-016		BTN, VOL<EEZ,EZ>
13	86-CT4-049-016		BTN, VOL H<HE>
14	86-CT4-024-016		BTN, CONT
15	86-CT4-031-016		LENS, FUNC
16	86-CT4-023-016		BTN, FUNC
17	86-CT4-004-016		LID, BATT
18	86-CT4-032-016		LENS, EQ
⚠ 19	86-CT4-613-016		PT, E<EEZ,EZ>
⚠ 19	86-CT4-614-016		PT, H<HE>
20	86-CT4-030-016		KNOB, RTRY MIC
21	86-CT4-213-016		SPR-C, BATT B
22	86-CT4-610-016		BAR ANT, AM-EJ<EEZ,EZ>
22	86-CT4-611-016		BAR ANT, AM-H3J<HE>
23	86-CT5-006-016		WINDOW, CD
24	86-CT5-005-016		BOX, CD
25	86-CT4-222-016		HLDR, CHUCK A
26	86-CT4-224-016		PLATE, MAGNET
27	87-036-368-016		MAGNET, DIA 18-30-5
28	86-CT4-223-016		HLDR, CHUCK B
29	86-CT4-225-016		CUSHION, CHUCK
30	87-036-389-016		SW, PUSH LOCK
31	86-CT4-017-016		KEY, CASS 1
32	86-CT5-202-016		SPR-T, CD
33	86-CT4-018-016		KEY, CASS 2
34	86-CT4-220-016		OIL-DMPR, GEAR
35	86-CT4-221-016		OIL-DMPR, BRACKET
36	86-CT5-204-016		PLATE, OIL-DMPR
37	86-CT5-004-016		HANDL, GRIP
38	86-CT5-203-016		PLATE-HANDLE
39	86-CT4-616-016		ANT, ROD
40	86-CT4-043-016		PLATE, VOLTAGE<EZ>
41	86-CT4-212-016		SPR-C, BATT A
42	86-CT5-002-016		CABI, REAR
43	87-A90-086-016		COVER, AC-SOCKET
⚠ 44	87-A60-178-016		JACK AC E W/SW
45	87-A90-147-016		COVER, AC SEL SW<HE>
⚠ 46	87-A90-146-016		SW, SL1-1-2<HE>
47	86-CT5-008-016		PANEL, CD
48	80-CD3-214-019		CUSH CD A
49	86-CT4-214-016		SPR-P, REC
A	87-751-097-416		VT2+3-12
B	87-493-100-416		VWWS+3-16 BLK
C	87-661-100-416		VFT1+3-16
D	87-651-075-416		VT1+2.6-10
E	87-651-034-416		VT1+2-5
F	81-CD5-204-119		SCREW,CD
G	87-067-520-016		VFTT +2-6 (S TIGHT)
H	87-571-032-416		VIT+2-3
I	87-651-104-416		VT1+3-30 GLD
J	87-651-097-416		VT1+3-12

MECHANICAL EXPLODED VIEW 1/1



CD MECHANISM EXPLODED VIEW 1/1

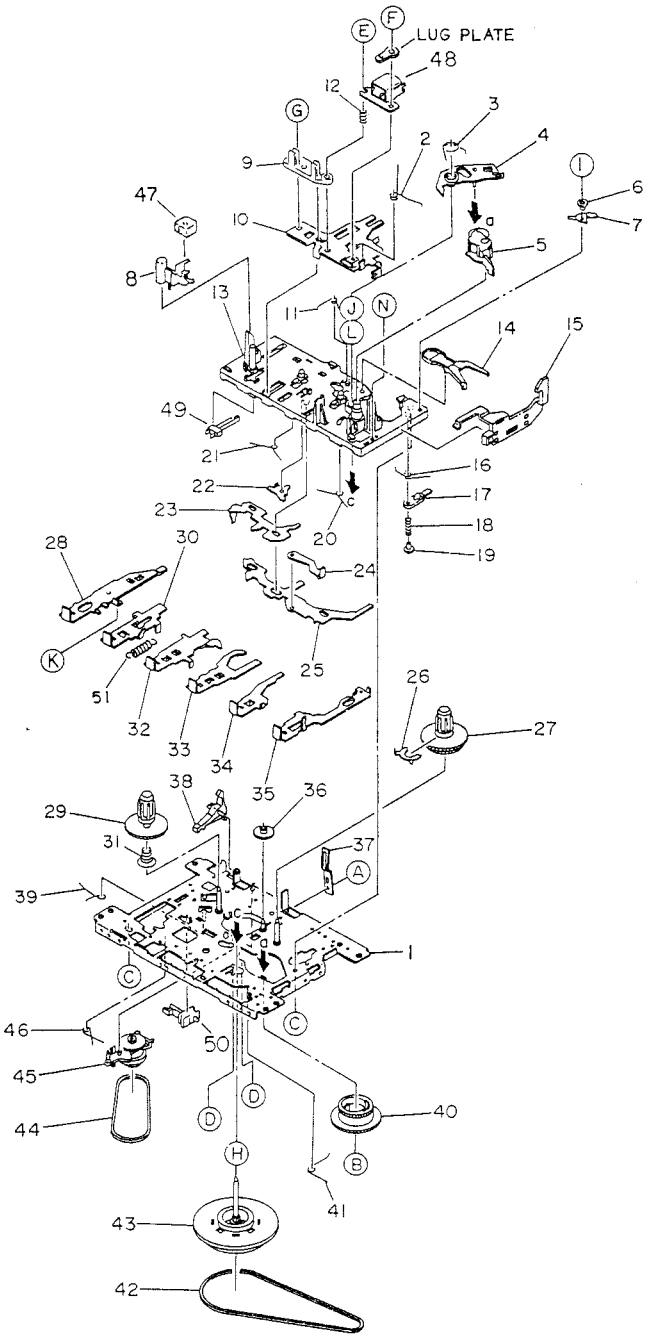


CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	9X-262-587-010		MOTOR CHASSIS ASSY
2	92-625-188-020		GEAR(A)
3	92-625-544-010		COVER
6	98-848-137-210		OPTICAL PICK UP KSS-210B
7	92-626-908-010		SHAFT SLED
8	92-626-081-010		GEAR B
A	87-261-032-210		V+2-3

TAPE MECHANISM EXPLODED VIEW 1/2

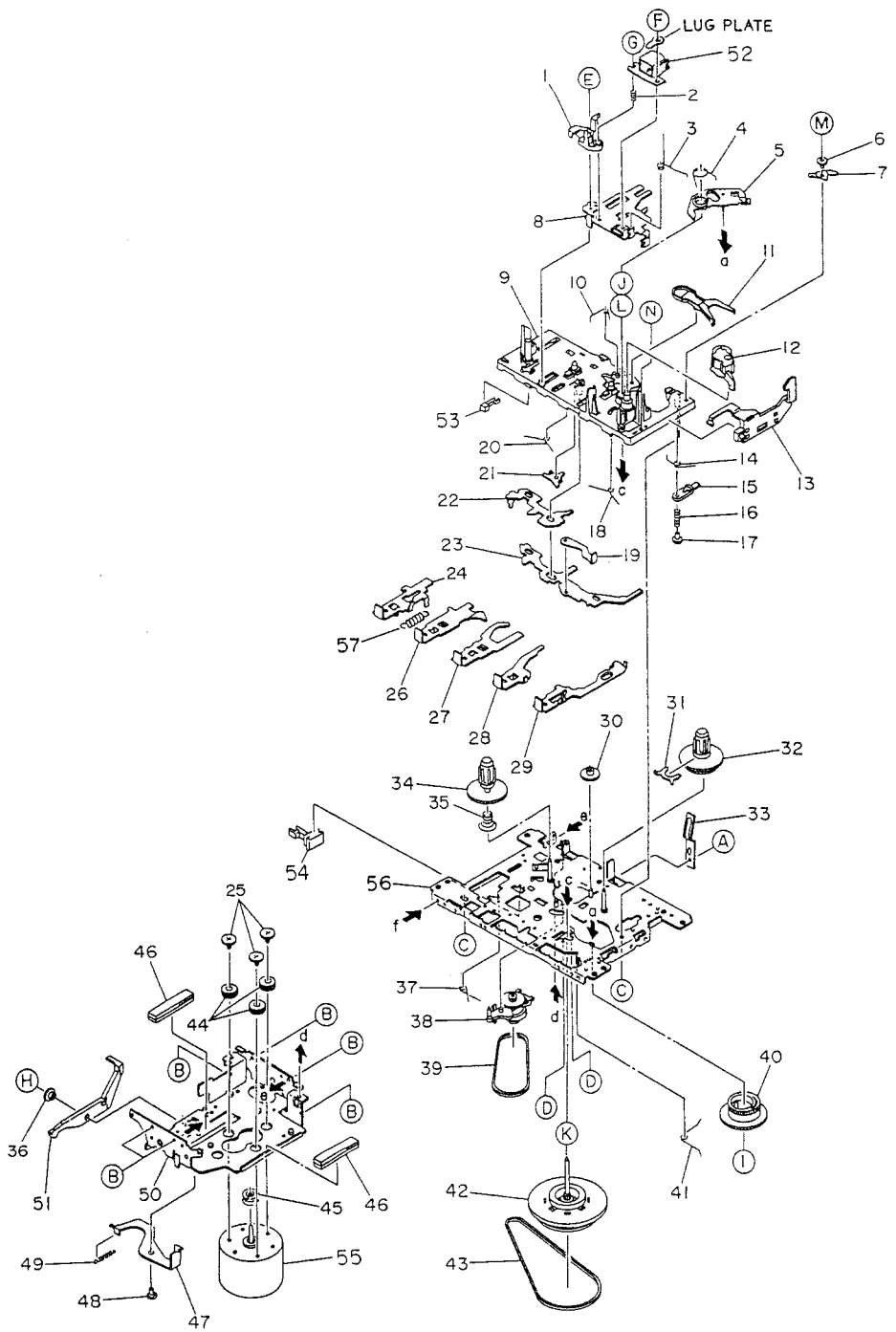


TAPE MECHANISM PARTS LIST 1／2

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-015-010		CHASSIS ASSY
2	S1-921-030-030		PANEL P SPRING
3	S1-921-260-050		GEAR PLATE SPRING
4	S1-921-265-020		GEAR PLATE ASSY
5	S1-921-043-090		PINCH ROLLER ARM ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-050		MG ARM
9	S1-921-030-4A0		HEAD BASE
10	S1-921-030-110		HEAD PANEL
11	S1-921-141-8A0		M CONTROL SPRING
12	S1-821-030-070		AZIMUTH SPRING
13	S1-921-143-010		BASE ASSY
14	S1-921-260-4A0		SENSING LEVER
15	S1-921-130-020		EJECT SLIDE LEVER
16	S1-921-141-3A0		P CONTROL SPRING
17	S1-921-140-820		PAUSE LEVER(F)
18	S1-921-140-120		PAUSE LEVER SPRING
19	S1-921-140-110		PAUSE STOPPER
20	S1-921-140-150		BUTTON LEVER SPRING(B)
21	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-200		PR STOPPER
23	S1-921-140-090		SWITCH ACTUATOR
24	S1-821-011-590		E KICK LEVER
25	S1-921-140-080		PUSH BUTTON ACTUATOR
26	S1-921-050-060		SENSER
27	S1-921-053-030		TAKE UP REEL ASSY
28	S1-921-140-220		REC BUTTON LEVER
29	S1-921-053-040		SUPPLY REEL ASSY
30	S1-921-140-230		PLAY BUTTON LEVER
31	S1-829-100-100		BACK TENSION SPRING
32	S1-921-140-240		REW BUTTON LEVER
33	S1-921-140-250		FF BUTTON LEVER
34	S1-921-140-260		STOP BUTTON LEVER
35	S1-921-140-610		PAUSE BUTTON LEVER
36	S1-821-100-700		FF GEAR
37	S1-829-100-010		PACK SPRING
38	S1-821-100-690		RECORD SAFETY LEVER
39	S1-921-140-210		REC BUTTON LEVER SPRING
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-090-240		MAIN BELT
43	S1-921-093-030		FLYWHEEL ASSY
44	S1-921-070-030		RF BELT
45	S1-921-073-080		RF CLUTCH ASSY
46	S1-921-140-170		P.S.LEVER SPRING
47	S6-209-100-100		E HEAD PH-K380-MS1
48	S6-201-011-110		HEAD,RP7442ES-0951
49	S6-401-011-520		LEAF SW MSW-1541F
50	S6-401-011-610		LEAF SW MSW-17820MVEI
51	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P33-200-320		DEL TITE SCREW M2-3
B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-922-000-000		AZIMUTH SCREW M2-8
F	S9-P01-200-310		SCREW,M2-3
G	S9-004-000-000		SCREW,M2-6
H	S9-882-000-000		P WASHER 2-3.5-0.4
I	S9-999-200-410		P TAP SCREW M2-3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-179-000-000		C TAP SCREW M2-3
L	S9-999-000-030		P WASHER2.1-4-0.13

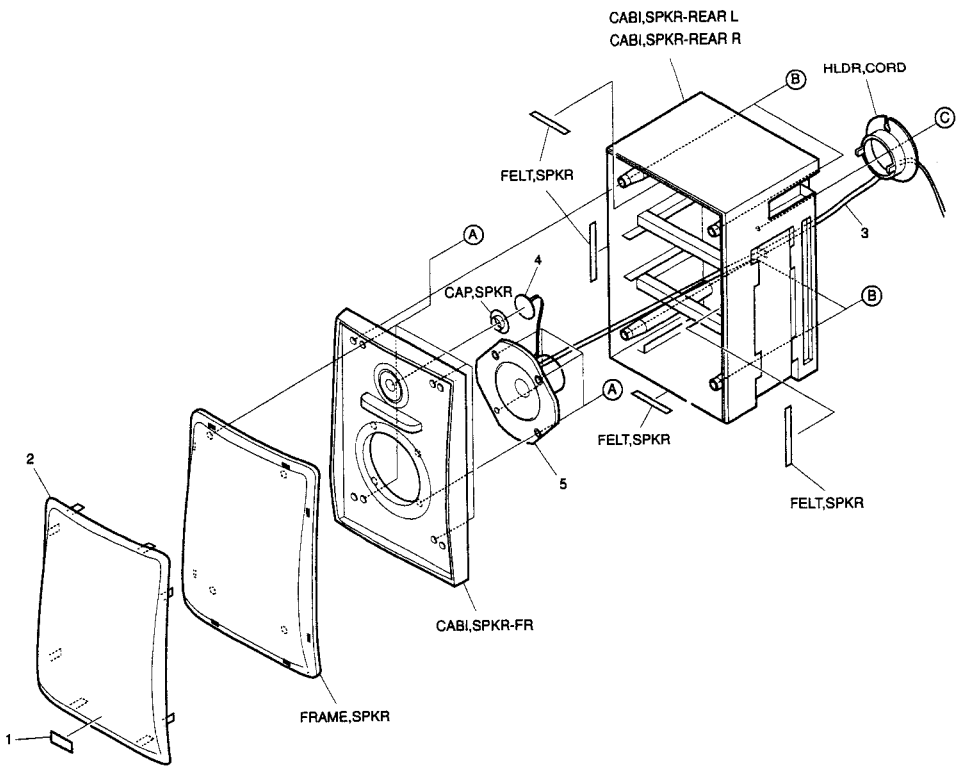
TAPE MECHANISM EXPLODED VIEW 2/2



TAPE MECHANISM PARTS LIST 2/2

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-030		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-010		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-090		PINCH ROLLER ARM ASSY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-820		PAUSE LEVER(F)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-140-140		BUTTON LEVER SPRING(A)
21	S1-921-140-200		FR STOPPER
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
25	S1-821-120-020		MOTOR COLLER SCREW
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSER
32	S1-921-053-030		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-053-040		SUPPLY REEL ASSY
35	S1-829-100-100		BACK TENSION SPRING
36	S1-821-120-650		COLLER B
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-080		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-040		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
44	S1-820-130-060		MOTOR RUBBER
45	S1-921-120-130		MOTOR PULLEY
46	S1-921-120-120		ANTI VIBR FELT MAT
47	S1-821-120-680		P KICK LEVER (A)
48	S1-821-120-230		PK COLLER SCREW A
49	S1-821-120-250		P KICK LEVER SPRING
50	S1-921-120-110		MOTOR BRACKET
51	S1-921-120-090		P KICK LEVER
52	S6-201-011-110		HEAD,RP7442ES-0951
53	S6-401-011-520		LEAF SW MSW-1541F
54	S6-401-011-610		LEAF SW MSW-17820MVE1
55	S6-002-030-290		MOTOR EG530YD-2BH
56	S1-921-015-010		CHASSIS ASSY
57	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P33-200-320		DEL TITE SCREW M2-3
B	S9-180-000-000		C TAP SCREW M2-4
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-004-000-000		SCREW M2-6
F	S9-P01-200-310		SCREW,M2-3
G	S9-922-000-000		AZIMUTH SCREW M2-8
H	S9-182-000-000		C TAP SCREW M2-6
I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-882-000-000		P WASHER 2-3.5-0.4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-999-200-410		P TAP SCREW M2-3
N	S9-P05-200-810		SCREW,S TAP 2-8

SPEAKER EXPLODED VIEW 1／1



SPEAKER PARTS LIST 1／1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	86-CT4-036-016		BADGE, AIWA
2	86-CT4-105-016		GRILL, SPKR
3	86-CT4-627-016		CORD, 2PSPKR
4	86-CT4-626-016		SPKR, T
5	86-CT4-625-016		SPKR, W 120 40HM 10W
A	87-651-097-416	VT1+3-12	
B	87-651-100-416	VT1+3-16	
C	87-751-097-416	VT2+3-12	

■ ACCESSORIES／PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	86-CT5-905-019		IB,ESF<EZ>
1	86-CT5-906-019		IB,ESC<HEJ>
1	86-CT5-907-019		IB,EGFI<EEZ>
2	84-CT4-951-016		RC,RC-CD6
⚠3	87-050-076-016		AC CORD SET ASSY E

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

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Printed in Singapore